

Westlake/Mercer Cleanup Project Seattle, Washington

**RM&R Site No. 255353
WSDOE Site No. NW1714**

Phase 2 Soil Sampling Report

Job No. 33759381

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Prepared for:



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1.0 INTRODUCTION

This Soil Sampling Report was prepared to provide a brief summary of soil sampling activities, soil analytical results, and other supporting documentation associated with Phase 2 of the Westlake/Mercer Cleanup Project (WMCP).

WMCP Phase 2 was performed by ConocoPhillips as part of a voluntary cleanup under the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA), Chapter 173-340 of the Washington Administrative Code (WAC). The primary purpose of this project was to clean up former releases of gasoline fuel (predominately an approximately 80,000-gallon gasoline spill from an underground product line in 1980 associated with the former Unocal Service Station located at 600 Westlake Avenue North) to levels that meet Ecology's MTCA Method A Cleanup Levels for total petroleum hydrocarbons (TPH) as gasoline, diesel, lube oil, and kerosene, benzene, toluene, ethylbenzene, and xylenes (BTEX), and total lead. WMCP.

WMCP Phase 2 was intended to address residual petroleum hydrocarbons and associated compounds present on the ConocoPhillips property (600 Westlake Avenue North) and 965 Valley Street in Seattle, WA. Phase 2 remedial excavation activities consisted of removal of petroleum hydrocarbon impacted soil exceeding MTCA Method A Cleanup Levels on the City Investors property and the majority of the ConocoPhillips property. Soil was removed to a minimum approximate depth of 15 feet below ground surface (bgs), which corresponds to approximately 14 feet above City of Seattle datum.

Phase 2 construction activities were performed from December, 2008 through August 2009. Construction began with mobilization on December 1, 2008. Demolition of pavements, pre-trenching and utility capping activities began on December 15th to prepare for installation of a soil/cement/bentonite (SCB) barrier wall. The SCB wall provided shoring for the primary excavation and served as a hydraulic barrier. The SCB wall was installed between late January and March 13, 2009. Mass excavation began in early March and was completed June 30, 2009. Site backfill and surface restoration activities were completed in July 2009.

Confirmation soil sampling was conducted during excavation activities to document conditions at the base of the excavation and to assess whether additional excavation was required to achieve cleanup levels or other project requirements. The decision to excavate additional soil or terminate the excavation was made by ConocoPhillips based on the sampling results.

2.0 CONFIRMATION SOIL SAMPLING

The soil sampling program performed during Phase 2 remedial excavation activities was intended to confirm whether petroleum hydrocarbon impacts exceeding MTCA Method A Cleanup Levels remain in soils at the floor of the excavation. The soil sampling excavation and sampling areas were designated in the Soil Sampling Plan (URS 2009 and included in Appendix A). The soil sampling plan was modified slightly in the field to accommodate installation of an additional 4-foot wide section of SCB wall along the east side of the ConocoPhillips parcel (600 Westlake Avenue). This modification is documented on the As-Built Soil Sampling Locations drawing included in Appendix A.

The Phase 2 excavation was divided into two areas. Area 1 is the 965 Valley Street property (the northern most parcel) which is approximately 240 feet by 180 feet. Area 2 is the majority of the ConocoPhillips property (the southern most parcel) which is approximately 160 feet by 180 feet. In general, soil was sampled within the excavation at the maximum proposed depth of 15 feet bgs (Elevation 14) to confirm concentrations at the floor of the excavation. A sampling grid was established across the site for the purposes of collecting confirmation samples at the base of the excavation. One confirmation sample was collected from each cell in the grid at the target excavation depth of 15 feet bgs. Samples were analyzed on a 24-hour rush basis for petroleum hydrocarbons and related compounds (see Section 2.1). If petroleum hydrocarbon impacts were detected at concentrations exceeding MTCA Method A Cleanup Levels, the ConocoPhillips Site Manager was notified. On a cell by cell basis, ConocoPhillips evaluated the data and assessed whether or not site conditions and/or project objectives required additional excavation. If requested by ConocoPhillips, the excavation continued down until residual concentrations were below MTCA Method A Cleanup Levels or as far as reasonably practicable depending on the accessibility of the contamination and other actual conditions in the field.

2.1 SOIL SAMPLING PROCEDURES

Once the excavation was advanced to the target depth, URS field sampling personnel instructed the excavator operator to bring soil from the floor of the excavated area up to a safe location for sample collection. Representative soil samples were collected from the bucket of the excavator, taking care to collect the sample from the middle of the bucket away from the sides. Samples were screened for the presence of volatile organic vapors using a photo-ionization detector (PID) and placed in laboratory-supplied containers.

Samples were preserved in laboratory-grade glass jars with Teflon™-lined lids, and labeled in accordance with the procedures identified in the soil sampling plan. Soil samples to be analyzed for diesel- and oil-range petroleum hydrocarbons and other analytes were packed into the glass jars using a new pair of nitrile gloves for each sample interval. Soil samples to be analyzed for volatile hydrocarbon fractions (gasoline-range petroleum hydrocarbons, benzene, toluene, ethylbenzene, xylenes, etc.) were collected and preserved in the field using EPA Method 5035A,

per Washington State Ecology requirements. Per the method 5035A requirements, each of these samples were collected using a new disposable plastic syringe sampler provided by the laboratory, and placed into a methanol-preserved glass bottle.

Confirmation samples were submitted to the laboratory for 24-hour turnaround to determine if further excavation is necessary.

2.2 SOIL SAMPLING RESULTS

Tabulated summaries of soil analytical results are presented in Tables 1 and 2. Laboratory analytical data sheets are included in Appendix B.

Table 1
Summary of Soil Analytical Results
Area 2
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Fl. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	COP-T2-S	COP-T2-N	COP-T1-N	COP-T1-S	A1		A2	A3	A4	A5		A6		A7	A8	A9	A10	B1		B2		B3	B4	B5	B6					
		1/30/2009	1/30/2009	1/29/2009	1/29/2009	6/5/2009	6/5/2009	6/8/2009	6/8/2009	6/10/2009	6/12/2009	6/12/2009	6/10/2009	4/8/2009	4/3/2009	4/3/2009	4/3/2009	4/3/2009	4/9/2009	6/5/2009	6/10/2009	6/8/2009	6/10/2009	6/10/2009	6/10/2009	4/3/2009	4/9/2009	4/7/2009	4/3/2009		
						11	14	14	14	14	9	11	14	11	14	14	14	14	14	11	14	9	14	14	14	14	9	12.5	14		
																						(DUP)									
VOCs (mg/kg)																															
Benzene	0.03	2.19	0.364	0.0243 U	0.0211 U	0.00118 U	0.000966 U	0.0150	0.0298	0.000978 U	NA	NA	0.000835	0.00245 UJ	0.00318 U	0.212 U	0.00636 U	0.00522 U	0.00699 U	0.00105 U	0.00119 U	0.00182	12.1	11.2	0.00176	0.000997 U	0.000925 U	0.00622 U	0.00655 U	0.181	
Ethylbenzene	6	14.4	0.996	0.122 U	0.106 U	0.00315 U	0.00258 U	0.0728	0.0885	0.00261 U	NA	NA	0.0118	0.00653 UJ	0.00850	1.06 U	0.0170 UJ	1.63 U	0.208 J	0.00281 U	0.00316 U	0.00301 U	17.5	16.2	0.00427	0.00266 U	0.00247 U	0.0166 UJ	0.0175 UJ	1.18 U	
Toluene	7	0.109 U	0.194	0.122 U	0.106 U	0.00118 U	0.000966 U	0.0268	0.0361	0.000978 U	NA	NA	0.00131	0.00245 UJ	0.00468	1.06 U	0.00636 UJ	0.00522 UJ	0.00699 UJ	0.00105 U	0.00119 U	0.00113 U	36.8	33.0	0.00233	0.000997 U	0.000925 U	0.00622 UJ	0.00655 UJ	1.18 U	
Xylenes, total	9	38.1	4.07	0.365 U	0.317 U	0.00789 U	0.00644 U	0.157	0.410	0.00652 U	NA	NA	0.00532	0.0163 UJ	0.0331	3.18 U	0.0424 UJ	4.89 U	0.665 J	0.00703 U	0.00791 U	0.00753 U	88.6	84.2	0.0294	0.00665 U	0.00773	0.0415 UJ	3.66 U	3.53 U	
Methyl tert-butyl ether (MTBE)	0.1	NA	NA	NA	NA	0.000789 U	0.000644 U	0.000553 U	0.000500 U	0.000652 U	NA	NA	0.000553 U	0.264 U	0.00212 U	0.00399 U	0.00526	0.816 U	0.00466 U	0.000703 U	0.000791 U	0.000753 U	0.000679 U	0.000381 U	0.000627 U	0.000665 U	0.000617 U	0.661 U	0.00437 U	0.00512 U	
TPHs (mg/kg)																															
Gasoline-Range	30 / 100 *	949	73.9	12.7	5.28 U	7.06 U	5.81 U	6.87 J	17.4	7.62 U	NA	NA	3.25 J	8.39 J	25.7 U	53.0 U	53.6 U	81.6 U	22.2 J	6.85 U	6.43 U	7.18 U	1,090	1,040	1.84 J	6.19 U	3.31 J	66.1 U	69.0 J	37.8 J	
Diesel-Range	2,000	74.8	172 J	16.8	11.5 U	12.9 U	11.9 U	12.7 U	12.3 U	13.5 U	NA	NA	26.0	92.2	338	97.0	170	270	54.1 U	12.9 U	12.7 U	12.9 U	12.6 U	13.7	11.4 U	12.4 U	70.2 J	52.8 U	82.0	188	
Lube Oil-Range	2,000	37.3	371 J	90.1	38.4	32.2 U	29.9 U	31.8 U	30.7 U	33.8 U	NA	NA	48.5	165	556	202	206	491	135 U	32.2 U	31.7 U	32.4 U	31.5 U	31.8 U	110	31.1 U	338 J	132 U	249	419	
Kerosene-Range	2,000	NA	NA	NA	NA	12.9 U	11.9 U	12.7 U	12.3 U	13.5 U	NA	NA	15.0 U	37.0	56.5	48.1 U	49.9 U	53.2 U	54.1 U	12.9 U	12.7 U	12.9 U	37.5 J	65.4 J	11.4 U	12.4 U	11.9 U	52.8 U	52.7 U	50.7 U	
PAHs (mg/kg)																															
Acenaphthene	NE	0.0197	0.0121 U	0.0115 U	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	0.0120 U	0.0121 U	0.0115 U	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	0.0190	0.0121 U	0.0115 U	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(b)	NE	0.0120 U	0.0121 U	0.0115 U	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(b)	0.1	0.0120 U	0.141	0.0510	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(b)	NE	0.0120 U	0.0411	0.0325	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(b)	NE	0.0120 U	0.0128	0.0255	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h)perylene	NE	0.0120 U	0.0698	0.0502	0.0205	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(b)	NE	0.0191	0.0779	0.0307	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(b)	NE	0.0120 U	0.0209	0.0115 U	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	0.0213	0.0121 U	0.0151	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	0.0329	0.0121 U	0.0115 U	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(b)	NE	0.0120 U	0.0328	0.0372	0.0131	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	0.882	0.0425	0.0245	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	1.62	0.0640	0.0296	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	1.14	0.0224	0.0208	0.0116 U	0.00789 U	0.00644 U	0.0148	1.36 U	0.00652 U	NA	NA	0.00553 U	0.0163 UJ	0.0212 UJ	21.2 U	0.0424 UJ	0.0348 UJ	27.7 U	0.00703 U	0.00791 U	0.00753 U	5.94	6.30	0.00627 U	0.00665 U	0.00617 UJ	0.0415 UJ	0.0437 UJ	0.0512 UJ	
Phenanthrene	NE	0.104	0.0268	0.0119	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	0.0246	0.0456	0.0266	0.0116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)	0.1	0.000191	0.153	0.0608	0.00131	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs (mg/kg)^c	NE	3.8826	0.5976	0.3556	0.0336	NA	NA	0.0148	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.94	6.30	NA	NA	NA	NA	NA	NA	NA
Total Metals (mg/kg)																															
Arsenic	20	NA	NA	2.63	1.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NA	NA	89.9	81.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	0.569 U	0.509 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	32.1	45.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	250	NA	NA	41.1	4.97	53.3	12.8	15.6	12.6	123	147 J	38.8 J	412	13.3	289 J	56.5 J	136 J	79.1 J	19.4	5.00	8.04	16.5	22.7	36.4	54.0	25.4 J	44.6	24.4 U	217 J		
Selenium	NE	NA	NA	1.14 U	1.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NE	NA	NA	0.569 U	0.509 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	0.112 U	0.106 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Metals (mg/L)																															
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/clarc/Reporting/CLARCReporting.aspx>).
DUP - Field duplicate
J - Estimated value
NA - Not applicable
NE - Not established
PAHs - Polynuclear aromatic hydrocarbons
TPHs - Total petroleum hydrocarbons
U - Compound was analyzed for but not detected above the reporting limit shown.
UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.
VOCs - Volatile organic compounds
TTEC - Total Toxicity Equivalent Soil Concentration
^a The soil cleanup level

Table 1
Summary of Soil Analytical Results
Area 2
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	D4		D5		D6		D7		D8		D9		D10		E1		E2		E3		E4		E5		E6		E7		E8		E9	
		6/10/2009 14	4/3/2009 11.5	3/27/2009 14	4/3/2009 11.5	3/30/2009 14	4/9/2009 14	6/4/2009 12	6/4/2009 14	6/4/2009 14	6/4/2009 14	6/9/2009 11	6/4/2009 14	4/1/2009 11.5	3/27/2009 14 (DUP)		4/1/2009 12	3/27/2009 14	4/1/2009 11.5	3/27/2009 14	3/31/2009 11.5	3/27/2009 14	3/31/2009 11.5	3/27/2009 14									
VOCs (mg/kg)																																	
Benzene	0.03	0.00191	0.00507 UJ	0.00815	0.265 U	0.0657	0.236 U	0.0619	0.00689 U	0.0730	0.00637 U	0.0205	0.00361 UJ	0.172 U	0.0307 J	0.000863 U	0.00435	0.00146 U	6.84 J	0.00445 U	0.0174 J	0.00514 J	0.00587 U	0.648 J	0.00456 UJ	0.237	0.00188 U	0.0847	0.00224 U	0.161			
Ethylbenzene	6	0.00253 U	0.0135 UJ	1.96	1.33 U	0.312	1.18 U	0.972	1.40 U	0.272	1.00 U	0.144	1.02 U	0.146 J	0.901 J	0.00230 U	0.00477	0.00388 UJ	50.5 J	0.0119 UJ	0.122 J	0.0454 J	0.0157 UJ	0.831 U	0.0122 UJ	0.816 U	0.00501 U	1.14	0.00598 UJ	1.15			
Toluene	7	0.000948 U	0.00507 UJ	0.0309	1.33 U	0.183	1.18 U	0.204	0.00689 UJ	0.162	0.00637 UJ	0.0563	0.00361 UJ	0.129 J	0.00466 J	0.000863 U	0.00105 U	0.00146 UJ	67.2 J	0.00445 UJ	0.0292 J	0.00842 J	0.00587 UJ	0.831 U	0.00456 UJ	0.816 U	0.00188 U	0.320	0.384 U	0.621 U			
Xylenes, total	9	0.00632 U	0.0338 UJ	5.14	3.98 U	2.82	3.54 U	4.05	4.19 U	2.75 U	3.01 U	2.35 U	3.05 U	0.327 J	2.11 J	0.00575 U	0.00795	0.00971 UJ	281 J	0.0297 UJ	3.11 J	0.379 J	0.0392 UJ	2.49 U	0.0304 UJ	3.43	0.767 U	5.14	1.15 U	4.31			
Methyl tert-butyl ether (MTBE)	0.1	0.000632 U	0.00338 UJ	0.000686 U	0.664 U	0.00187 U	0.591 U	0.00207 U	0.699 U	0.00382 U	0.0254	0.00343 U	0.508 U	0.00239 U	0.000612 U	0.000575 U	0.000698 U	0.000971 U	0.000605 U	0.00297 U	0.00102 U	0.000883 U	0.493 U	0.00449 UJ	0.458 U	0.00414 UJ	0.00456	0.00108 U	0.00408	0.00301 UJ			
TPHs (mg/kg)																																	
Gasoline-Range	30 / 100 ^a	6.76 U	35.1 U	335	66.4 U	76.9 J	59.1 U	117.1	69.9 U	45.8 U	50.2 U	39.2 U	21.9 J	43.1 U	76.6	5.08 U	6.95 U	16.9 U	2.960	37.3 U	90.5 J	53.0 J	49.4 U	41.5 U	45.3 U	67.8 J	12.7 U	134 J	19.2 U	82.4 J			
Diesel-Range	2,000	12.2 U	102	33.1	159	22.7 U	85.4	29.1	76.2	43.0 U	195	35.8 U	46.8 U	44.6	12.4 U	11.0 U	13.0 U	26.0	20.3	73.8	56.6 J	16.2 J	90.8	154	67.4	38.2 U	18.4 U	24.1	30.8	31.1 U			
Lube Oil-Range	2,000	30.4 U	209	57.9	337	56.8 U	194	58.4 U	173	107 U	507	89.6 U	117 U	102 U	30.9 U	27.5 U	32.5 U	73.3	30.0 U	163	85.0	33.2 U	149	309	145	95.4 U	46.0 U	43.9	53.7 U	77.8 U			
Kerosene-Range	2,000	12.2 U	34.7 U	31.8	42.6 U	22.7 U	39.4 U	23.3 U	45.3 U	43.0 U	42.1 U	35.8 U	46.8 U	40.8 U	12.4 U	11.0 U	13.0 U	23.0 U	58.3	35.3 U	29.8	13.3 U	45.3 U	38.1 U	42.2 U	38.2 U	18.4 U	17.4 U	21.5 U	31.1 U			
PAHs (mg/kg)																																	
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Benzo(g,h,i)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Naphthalene	5	0.00632 U	0.0338 UJ	0.137	0.0445 UJ	0.171	0.0366 UJ	8.23 U	0.0459 UJ	18.3 U	0.0424 UJ	15.7 U	0.0241 UJ	17.2 U	0.120	0.00575 U	0.00698 U	0.00971 UJ	10.8	0.0297 UJ	0.0947 J	0.0499 J	0.0392 UJ	0.0449 UJ	0.0304 UJ	16.3 U	0.0125 U	4.63 U	0.0149 UJ	12.4 U			
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
TTEC Concentration (c-PAHs)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Total PAHs (mg/kg)^c	NE	NA	NA	0.137	NA	0.171	NA	NA	NA	NA	NA	NA	NA	NA	0.120	NA	NA	NA	10.8	NA	0.0947	0.0499	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Total Metals (mg/kg)																																	
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Barium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Lead	250	15.6	106 J	44.3 J	36.2 J	18.0	42.1 J	41.7	34.9 J	98.2	57.0 J	87.4	89.0	81.5	7.20	3.22	23.7	36.1	43.4	61.8	21.1 J	30.7 J	83.5	86.4 J	94.0	92.2 J	9.67 J	48.5 J	34.3 J	63.5 J			
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Silver	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
TCLP Metals (mg/L)																																	
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											

Notes:
Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/clarc/Reporting/CLARCReporting.aspx>).

DUP - Field duplicate

J - Estimated value

NA - Not applicable

NE - Not established

PAHs - Polynuclear aromatic hydrocarbons

TPHs - Total petroleum hydrocarbons

U - Compound was analyzed for but not detected above the reporting limit shown.

UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.

VOCs - Volatile organic compounds

TTEC - Total Toxicity Equivalent Soil Concentration

^a The soil cleanup level is

Table 1
Summary of Soil Analytical Results
Area 2
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	E10	F1		F2	F3		F4		F5		F6		F7	F8		F9		F10	G1		G2		G3		G4	G5			
		3/27/2009	6/9/2009	6/4/2009	6/4/2009	6/2/2009	6/9/2009	5/29/2009	6/9/2009	4/21/2009	4/1/2009	3/27/2009	4/1/2009	3/27/2009	3/27/2009	3/31/2009	3/25/2009	3/31/2009	3/25/2009	3/27/2009	6/4/2009	6/4/2009	6/9/2009	6/2/2009	6/9/2009	5/29/2009	5/29/2009	3/25/2009		
		14	9	11.5	14	14	11.5	14	10.5	14	11	14	12	14	14	10.5	14	11.5	14	14	10	14	11	14	11	14	14	14		
								(DUP)																						
VOCs (mg/kg)																														
Benzene	0.03	0.00708 UJ	0.00104 U	0.126 J	0.0191	0.00854	0.00249 UJ	0.0826 J	0.0431 J	0.00268 UJ	0.0905	0.00293 U	0.171 J	0.00564 U	0.0847	0.181 U	0.00316 U	0.0375	0.00277 U	0.0236	0.00207 U	0.00292 U	0.000875 U	0.000802 UJ	0.0876	0.0239	0.0368	0.000900 U	2.73 J	
Ethylbenzene	6	0.977 U	0.00278 UJ	0.168 J	0.107	0.0101	0.00664 UJ	5.78	7.47	0.00716 UJ	0.215 U	0.00782 UJ	1.95 J	0.0150 U	3.20	0.906 U	0.00842 UJ	1.80	0.00738 UJ	0.675	0.00553 U	0.770 U	0.00233 U	0.158 U	0.00387	0.0318	0.00259	0.00240 U	11.7 J	
Toluene	7	0.977 U	0.00104 UJ	0.842 U	0.0198	0.00544	0.567 U	2.13	1.74	0.672 U	0.0409 J	0.00293 UJ	0.906 J	0.00564 U	1.64	0.906 U	0.00316 UJ	0.956	0.00277 UJ	0.345	0.00207 U	0.770 U	0.00272	0.158 U	0.000916 U	0.0191	0.000770 U	0.000900 U	14.9 J	
Xylenes, total	9	2.93 U	0.00694 UJ	0.548 J	0.322	0.0283	0.0166 UJ	31.1	34.6	0.0179 UJ	0.646 U	0.0195 UJ	7.58 J	0.0376 U	13.7	2.72 U	1.17 U	7.39	1.35 U	3.60	0.0138 U	2.31 U	0.00916	0.474 U	0.00610 U	0.292	0.00513 U	0.00600 U	49.0 J	
Methyl tert-butyl ether (MTBE)	0.1	0.489 U	0.000694 U	0.00259 U	0.000669 U	0.000342 U	0.00166 UJ	0.000612 U	0.000614 U	0.00179 UJ	0.108 U	0.00195 U	0.00192 U	0.531 U	0.000772 U	0.453 U	0.195 U	0.000913 U	0.225 U	0.000683 U	0.00138 U	0.00195 U	0.000583 U	0.000535 UJ	0.000610 U	0.000737 U	0.000513 U	0.000600 U	0.000837 U	
TPHs (mg/kg)																														
Gasoline-Range	30 / 100 ^a	73.2 J	9.02 U	13.7 J	10.1	3.02 J	23.9 U	449	613	27.9 U	10.8 U	21.1 U	267 J	50.6 U	290 J	45.3 U	19.5 U	183 J	22.5 U	144	11.5	50.2 U	5.06 U	10.1 U	2.32 J	14.6 U	2.67 J	6.85 U	1.120 J	
Diesel-Range	2,000	101	16.8 U	44.3 U	12.9 U	12.9 U	73.4	12.5 U	21.7	39.5 U	30.8	22.5 U	304	105	177	98.4	22.1 U	30.8	24.6 U	13.0 U	14.8	40.8 U	12.1 U	15.4 U	13.9 U	18.9 U	12.1 U	12.7 U	20.6	
Lube Oil-Range	2,000	244	41.9 U	119	32.3 U	32.3 U	184	31.2 U	31.4 U	98.7 U	52.9	36.1 U	219	329	266	103 U	55.1 U	59.7 U	61.5 U	32.6 U	35.1 U	102 U	30.3 U	38.5 U	41.1	47.2 U	30.2 U	31.6 U	40.2	
Kerosene-Range	2,000	45.6 U	16.8 U	44.3 U	12.9 U	12.9 U	32.3 U	33.5 J	74.3 J	39.5 U	16.0 U	22.5 U	43.0	44.9 U	83.5	41.3 U	22.1 U	23.9 U	24.6 U	13.0 U	14.0 U	40.8 U	12.1 U	15.4 U	13.9 U	18.9 U	12.1 U	12.7 U	33.6	
PAHs (mg/kg)																														
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	19.5 U	0.00694 UJ	16.8 U	0.0570	0.00342 U	0.0166 UJ	2.66	4.37	0.0179 UJ	0.00888 UJ	0.0195 UJ	7.13 U	0.0376 UJ	0.126	18.1 U	0.0211 UJ	0.167	0.0185 UJ	0.123	0.0138 U	0.0195 UJ	0.00583 U	0.00535 UJ	0.00610 U	4.78 U	0.00513 U	0.00600 U	6.12	
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs (mg/kg)^c	NE	NA	NA	NA	0.06	NA	NA	2.66	4.37	NA	NA	NA	NA	NA	0.13	NA	NA	0.167	NA	0.123	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.12
Total Metals (mg/kg)																														
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	250	100 J	12.3	101	3.96	3.41	46.3	20.8 J	19.6 J	1.90 U	28.8	15.5	84.8 J	42.3	88.2 J	36.4 J	1.27 J	61.6	35.9 J	23.1	25.7 J	1.95	1.78	0.791	163	23.9	29.8 J	10.2 J	161	
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Metals (mg/L)																														
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/clarc/Reporting/CLARCReporting.aspx>).
DUP - Field duplicate

J - Estimated value

NA - Not applicable

Table 1
Summary of Soil Analytical Results
Area 2
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	G6	G7	G8	G9	G10	H1		H2	H3	H4		H5		H6	H7	H8	H9	H10	H11		H12	H13	H14	H15	H16				
		3/25/2009	3/24/2009	3/24/2009	3/24/2009	3/23/2009	6/4/2009	6/4/2009	6/2/2009	5/29/2009	6/9/2009	5/29/2009	3/19/2009		3/24/2009	3/24/2009	3/24/2009	3/19/2009	3/23/2009	6/3/2009	6/3/2009		6/2/2009	5/29/2009	5/29/2009	3/19/2009	3/23/2009	3/19/2009		
		14	14	14	14	14	11.5	14	14	14	11	14	14		14	14	14	14	14	11	14		14	14	14	10	14			
								(DUP)					(DUP)								(DUP)									
VOCs (mg/kg)																														
Benzene	0.03	0.468 J	0.0938	0.201 J	0.297 J	0.0317	0.0180	0.0571	0.0811	0.000894 U	0.000961 U	0.00272 UJ	0.0174	0.298 J	0.703 J	0.129	0.0874	0.157	0.235 U	0.0037 UJ	0.00123	0.194	0.247	0.000850 U	0.000643 U	0.000953 U	0.00125 U	0.00386 U	3.25	
Ethylbenzene	6	3.40 J	1.18	3.80 J	5.08 J	2.70	0.0805 J	0.0409	0.0420	0.00238 U	0.00256 U	0.00726 UJ	3.89	0.784 J	2.98 J	2.10	1.58	3.91	1.17 U	0.437 U	0.00273	2.41	2.22	0.00227 U	0.00172 U	0.00254 U	0.00334 U	0.423 U	14.6	
Toluene	7	1.79 J	0.669	2.02 J	4.24 J	0.669	0.575 U	0.00321	0.00346	0.000894 U	0.000961 U	0.535 U	1.63	0.453 J	2.08 J	1.15	0.768	2.17	1.17 U	0.437 U	0.00259	0.0552 J	0.131 J	0.000850 U	0.000643 U	0.00125 U	0.423 U	8.57		
Xylenes, total	9	13.5 J	4.64	16.5 J	27.1 J	4.93	1.73 U	0.158	0.148	0.00596 U	0.00640 U	1.60 U	8.85	2.80 J	10.9 J	8.11	5.89	17.3	4.56	1.31 U	0.0138	12.8	10.4	0.00567 U	0.00429 U	0.00636 U	0.00836 U	1.27 U	78.3	
Methyl tert-butyl ether (MTBE)	0.1	0.00145 U	0.00182 U	0.00230 U	0.00381 U	0.00210 U	0.00176 U	0.000414 U	0.000513 U	0.000596 U	0.000640 U	0.00181 U	0.000654 U	NA	NA	0.00170 U	0.00213 U	0.00414 U	NA	0.0123 J	0.000568 U	0.000638 U	0.000539 U	0.000567 U	0.000429 U	0.000636 U	NA	0.00257 U	NA	
TPHs (mg/kg)																														
Gasoline-Range	30 / 100 ^a	306 J	145 J	553 J	895 J	181 J	28.8 U	14.7	9.21	5.50 U	6.15 U	28.2 U	239 J	51.0 J	172 J	245 J	214 J	528 J	139 J	21.8 U	2.40 J	184	148	6.04 U	7.42	5.33 U	6.24 U	21.1 U	1.520	
Diesel-Range	2,000	80.8	184	132	289 J	22.1	66.3	11.9 U	11.6 U	13.0 U	12.2 U	33.9 U	12.0 U	110	74.5	183	123	185	48.2 U	19.3 U	12.6 U	23.9	21.1	12.7 U	11.6 U	11.9 U	20.5 U	40.8		
Lube Oil-Range	2,000	142	265	235	537 J	40.8	185	29.8 U	29.0 U	32.6 U	30.6 U	84.7 U	30.1 U	162	107	312	211	368	120 U	61.0	31.6 U	32.4	30.2 U	31.9 U	30.8 U	28.9 U	29.8 U	131	63.3	
Kerosene-Range	2,000	37.1	95.9	85.8	170 J	15.4 U	30.0 U	11.9 U	11.6 U	13.0 U	12.2 U	33.9 U	12.0 U	71.2	55.3	96.6	60.9	101	48.2 U	19.3 U	12.6 U	33.2	25.2	12.7 U	12.3 U	11.6 U	11.9 U	20.5 U	89.0	
PAHs (mg/kg)																														
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Benzo(g,h)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Naphthalene	5	6.15 U	0.278	9.18 U	17.8 U	5.31 U	11.5 U	0.0591	0.0439	0.00596 U	0.00640 U	0.0181 UJ	0.0440	NA	NA	0.308	0.388	0.394	NA	8.73 U	0.00568 U	1.78 J	2.73 U	0.00567 U	0.00429 U	0.00636 U	NA	8.45 U	NA	
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
TTEC Concentration (c-PAHs)																														
Total PAHs (mg/kg) ^c	NE	NA	0.278	NA	NA	NA	NA	0.0591	0.0439	NA	NA	NA	0.044	NA	NA	0.308	0.388	0.394	NA	NA	NA	1.78	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (mg/kg)																														
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Barium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Lead	250	188	55.2 J	58.4 J	85.1 J	88.0	39.1	2.37	2.60	6.59	81.8 J	2.78 J	46.7	59.6 J	30.0 J	55.5 J	96.3 J	156 J	15.4 J	4.25	11.0	6.72	7.10	2.57	164 J	19.2 J	69.2 J	2.03	32.7 J	
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Silver	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
TCCLP Metals (mg/L)																														
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						

Notes:
Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/clarc/Reporting/CLARCReporting.aspx>).

DUP - Field duplicate

J - Estimated value

NA - Not applicable

NE - Not established

PAHs - Polynuclear aromatic hydrocarbons

TPHs - Total petroleum hydrocarbons

U - Compound was analyzed for but not detected above the reporting limit shown.

UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.

VOCs - Volatile organic compounds

TTEC - Total Toxicity Equivalent Soil Concentration

^a The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.

^b These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC-173-340 Toxicity Equivalent Soil Concentration calculations.

^c Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and benzo(g,h)perylene).

Note benzo(a,e), (a,h), (a,i), and (a,l) pyrenes and dibenzo(a,j) acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analyte list. The waste characterization is determined based on an exceedance of a 1% total PAHs as described in WAC 173-303-100.

^d WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	B7	B8	B9	B10	B11	B12	B13		B14				B15	C1			C2	C3	C4		C5		C6	C7
		4/16/2009 14	4/16/2009 14	4/16/2009 14	4/15/2009 14	4/1/2009 14	4/1/2009 14	4/13/2009 10	4/1/2009 14	6/19/2009 2	4/16/2009 7	4/13/2009 9	4/1/2009 14	4/6/2009 14	5/12/2009 4	5/4/2009 9	5/4/2009 14	4/28/2009 14	4/28/2009 14	4/24/2009 14	4/29/2009 7	4/24/2009 14	4/23/2009 14	4/16/2009 14	
VOCs (mg/kg)																									
Benzene	0.03	0.000907 U	0.000885 U	0.000979 U	0.00106 U	0.000919 U	0.00619 U	0.00647 U	0.00610 U	0.024 U	0.592 J	0.00443 U	0.00521 U	0.000918 U	0.00119 U	0.000963 U	0.0103 J	0.000994 U	0.000695 U	0.00354	0.000951 U	0.0225	0.000799 U	0.00134 U	
Ethylbenzene	6	0.00242 U	0.00236 U	0.00261 U	0.00282 U	0.00245 U	0.0165 UJ	0.0172 U	0.0163 UJ	0.060 U	0.688 U	0.883 U	0.0139 UJ	0.00245 U	0.00318 U	0.00257 U	0.0186 J	0.00265 U	0.00185 U	0.00165 U	0.00254 U	3.10	0.00213 U	0.00357 U	
Toluene	7	0.000907 U	0.000885 U	0.000979 U	0.00106 U	0.000919 U	0.00619 UJ	0.00849 J	1.08 U	0.060 U	0.688 U	0.883 U	0.992 U	0.000918 U	0.00119 U	0.000963 U	0.000856 UJ	0.000994 U	0.000695 U	0.000618 U	0.000951 U	0.00115	0.000799 U	0.00134 U	
Xylenes, total	9	0.00605 U	0.00590 U	0.00652 U	0.00706 U	0.00613 U	0.0412 UJ	0.0431 U	0.0407 UJ	0.060 U	2.06 U	2.65 U	2.97 U	0.00612 U	0.00795 U	0.00642 U	0.00571 UJ	0.00663 U	0.00463 U	0.00412 U	0.00634 U	0.00649 U	0.00532 U	0.00893 U	
Methyl tert-butyl ether (MTBE)	0.1	0.000835	0.000590 U	0.000652 U	0.000706 U	0.000613 U	0.00412 U	0.00431 U	0.00407 U	0.060 U	0.00247 U	0.00295 U	0.00347 U	0.000612 U	0.000795 U	0.000642 U	0.000571 UJ	0.000663 U	0.000463 U	0.000412 U	0.000634 U	0.000649 U	0.000532 U	0.00155	
TPHs (mg/kg)																									
Gasoline-Range	30 / 100 *	6.51 U	6.69 U	6.67 U	6.91 U	7.09 U	76.0 U	29.3 J	79.3 J	6.0 U	59.6 J	192 J	175 J	7.57 U	7.39 U	219 J	6.14 U	5.61 U	1.71 J	2.44 J	1.81 J	351 J	2.40 J	2.73 J	
Diesel-Range	2,000	12.8 U	13.2 U	12.9 U	12.8 U	13.2 U	126	60.4 U	241	49	1,530	809	755	13.6 U	13.3 U	11.7 U	10.8 U	12.1 U	12.2 U	12.3 U	12.0 U	17.3 U	13.9 U	18.2	
Lube Oil-Range	2,000	85.5	33.0 U	32.3 U	32.1 U	33.1 U	242	151 U	121 U	62 U	291	433	252	34.0 U	33.2 U	29.2 U	27.0 U	30.1 U	30.4 U	30.8 U	30.1 U	48.1	34.8 U	51.1	
Kerosene-Range	2,000	12.8 U	13.2 U	12.9 U	12.8 U	13.2 U	65.2 U	60.4 U	174	12.5 U	738	87.7	396	13.6 U	13.3 U	11.7 U	10.8 U	12.1 U	12.2 U	12.3 U	12.0 U	17.3 U	13.9 U	14.4 U	
PAHs (mg/kg)																									
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	0.00605 U	0.00590 U	0.00652 U	0.00706 U	0.00613 U	0.0412 UJ	0.0431 UJ	21.6 U	0.06 U	13.8 U	17.7 U	19.8 U	0.00612 U	0.00795 U	0.00642 UJ	0.00571 UJ	0.00663 U	0.00463 U	0.00412 U	0.00634 U	0.00646	0.00532 U	0.00893 U	
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs (mg/kg) ^c	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0646	NA	NA	NA
Total Metals (mg/kg)																									
Arsenic	20	NA	NA	NA	NA	NA	NA	2.94 U	NA	NA	NA	2.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NA	NA	NA	NA	NA	NA	34.7	NA	NA	NA	20.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	NA	2.94 U	NA	NA	NA	2.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	3.26	NA	NA	NA	2.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	250	8.96 J	6.57 J	3.07 J	4.36 J	3.56	136	36.6	11.6	3.4	19.8 J	12.5	13.1	27.8	6.25	6.46	1.81	8.91 J	8.72 J	4.36	3.05 J	39.5 J	23.2	23.3 J	
Selenium	NE	NA	NA	NA	NA	NA	NA	5.88 U	NA	NA	NA	4.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NE	NA	NA	NA	NA	NA	NA	2.94 U	NA	NA	NA	2.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Metals (mg/L)																									
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://formex.wa.gov/ccy/clear/Reporting/CLAR/Reporting.aspx>).
DUP - Field duplicate
J - Estimated value
NA - Not applicable
NE - Not established
PAHs - Polynuclear aromatic hydrocarbons
TPHs - Total petroleum hydrocarbons
UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.
VOCs - Volatile organic compounds
TTEC - Total Toxicity Equivalent Soil Concentration
* The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.
* These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC 173-340 Toxicity Equivalent Soil Concentration calculations.
* Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene. Note dibenzo [f,g,h,i] pyrenes and dibenzo[a,j] acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analyze list. The waste characterization is determined based on an exceedance of a 1% total PAHs as described in WAC 173-303-100.
* WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	C8		C9	C10	C11	C12		C13		C14	C15	D1		D2		D3	D4	D5		D6					
		4/16/2009	4/16/2009	4/15/2009	4/15/2009	4/16/2009	4/1/2009	4/21/2009	4/16/2009	4/1/2009	4/6/2009	4/6/2009	5/12/2009	5/12/2009	5/4/2009	4/28/2009	4/28/2009	4/24/2009	4/29/2009	4/24/2009	4/23/2009					
		14	14	14	14	9	14	6	9	14	14	14	4	7	9	14	14	14	14	9	14	14				
		(DUP)																								
VOCs (mg/kg)																										
Benzene	0.03	0.0460	0.0214	0.00193 UJ	0.00105 U	0.000775 U	0.158 U	0.00710 U	0.000917 U	0.0847	0.156 U	0.000834 U	0.000870 U	0.00112 U	0.00105 U	0.0342	0.108	0.0802	0.000715 U	0.000895 U	0.000770 U	0.00209	0.419 J	0.505	0.00120 U	
Ethylbenzene	6	0.0954 J	0.0317	0.00515 UJ	0.00281 U	0.00207 U	0.0108 UJ	0.0189 UJ	0.00244 U	0.00693 UJ	2.00	0.00222 U	0.00232 U	0.00299 U	0.00279 U	0.118 J	0.855	0.674	0.00191 U	0.00239 U	0.00205 U	0.00384	4.93 J	4.99	0.00319 U	
Toluene	7	0.00798	0.00246	0.00193 UJ	0.00105 U	0.000775 U	0.790 U	1.35 U	0.000917 U	0.00260 UJ	0.780	0.000834 U	0.000870 U	0.00112 U	0.00105 U	0.0595 J	0.139	0.131	0.000715 U	0.000895 U	0.000770 U	0.000640 U	0.0409 J	0.0241 J	0.00120 U	
Xylenes, total	9	0.458	0.554	0.0129 UJ	0.00703 U	0.00517 U	0.0270 UJ	4.05 U	0.00611 U	0.0173 UJ	8.83	0.00682	0.00580 U	0.00747 U	0.00698 U	1.62	1.62	2.10	0.00477 U	0.00597 U	0.00513 U	0.00427 U	5.31 J	5.11	0.00797 U	
Methyl tert-butyl ether (MTBE)	0.1	0.000541 U	0.000552 U	0.00129 U	0.000703 U	0.000517 U	0.00270 U	0.00473 U	0.000611 U	0.00173 U	0.00240 UJ	0.000556 U	0.000580 U	0.000747 U	0.000698 U	0.000814 U	0.000651 U	0.000578 UJ	0.000477 U	0.000597 U	0.000513 U	0.000427 U	0.000572 U	0.000649 U	0.000797 U	
TPHs (mg/kg)																										
Gasoline-Range	30 / 100 *	7.07 J	13.1 J	10.5 U	6.66 U	6.57 U	39.5 U	68.6 U	5.37 U	33.4 U	186 J	5.49 U	6.07 U	6.66 U	7.22 U	10.8	218 J	89.9 J	6.74 U	5.53 U	2.92 J	2.17 J	1,080 J	838 J	8.40 U	
Diesel-Range	2,000	208	145	15.9 U	12.8 U	13.0 U	818	4,870	12.3 U	415	353	12.3 U	15.0	12.2 U	12.8 U	132	117	12.7 U	11.7 U	11.7 U	12.0 U	23.1	20.3	13.7 U		
Lube Oil-Range	2,000	542	384	39.8 U	32.1 U	32.5 U	202	11,300	30.7 U	87.3 U	423	30.8 U	32.0 U	30.5 U	32.0 U	199	173	31.8 U	29.3 U	29.2 U	30.0 U	38.1	34.4	34.4 U		
Kerosene-Range	2,000	33.0	23.5	15.9 U	12.8 U	13.0 U	653	692	12.3 U	299	161	12.3 U	12.8 U	12.2 U	12.8 U	38.4	28.8	12.7 U	11.7 U	11.7 U	12.0 U	25.7	26.4	13.7 U		
PAHs (mg/kg)																										
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	1.77 U	0.0935	0.0129 UJ	0.00703 U	0.00517 U	0.0270 UJ	0.0473 UJ	0.00611 U	0.0173 UJ	15.6 U	0.00556 U	0.00580 U	0.00747 U	0.00698 U	0.0904	2.17 U	1.94 U	0.00477 U	0.00597 U	0.00513 U	0.00427 U	3.75	3.27	0.00797 U	
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)		0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs (mg/kg) ^c		NE	NA	0.0935	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0904	NA	NA	NA	NA	NA	NA	3.75	3.27	NA
Total Metals (mg/kg)																										
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	250	3.23 J	3.73 J	156 J	4.10 J	4.19 J	11.2 J	2,330	1.31	3.58 J	40.1	19.4	56.6	4.24	159	4.61	3.46	3.15	14.3 J	14.8 J	3.20 J	2.74 J	17.9 J	18.6	14.5	
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCCLP Metals (mg/L)																										
Lead	5 ^(d)	NA	NA	1.00 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/claro/Reporting/CLARCReporting.aspx>).

DUP - Field duplicate

J - Estimated value

NA - Not applicable

NE - Not established

PAHs - Polynuclear aromatic hydrocarbons

TPHs - Total petroleum hydrocarbons

U - Compound was analyzed for but not detected above the reporting limit shown.

UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.

VOCs - Volatile organic compounds

TTEC - Total Toxicity Equivalent Soil Concentration

* The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.

** These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC-173-340 Toxicity Equivalent Soil Concentration calculations.

^c Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and benzo(g,h,i)perylene).

Note dibenzo (f,e,g), (h,b), (k,i), and (a,l) pyrenes and dibenzo(a,j) acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analysis list. The waste characterization is determined based on an exceedance of a 1% total PAHs as defined in WAC 173-303-040.

^d WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	D7		D8			D9			D10		D11			D12		D13	D14	D15	E1						
		4/16/2009 14	5/4/2009 2	4/16/2009 14	5/4/2009 1.5	4/30/2009 7	4/28/2009 9	4/28/2009 12	4/16/2009 14	4/13/2009 14	4/15/2009 9 (DUP)	4/28/2009 12	4/13/2009 14 (DUP)	4/23/2009 6	4/21/2009 9	4/13/2009 14	4/13/2009 14	4/13/2009 14	4/6/2009 14	5/15/2009 4	5/15/2009 7	5/4/2009 9	5/4/2009 14			
VOCs (mg/kg)																										
Benzene	0.03	0.00759	0.000927 U	0.0984	0.000924 U	0.00116 U	NA	NA	0.0368 U	0.0546 U	0.000787 U	0.000837 U	0.155	0.0705 J	0.0967 J	0.00133 U	0.207 U	0.0275 J	0.160 U	0.00292 U	0.000965 UJ	0.00114 U	0.00178	3.48	0.0139	
Ethylbenzene	6	0.0342	0.00247 U	0.110 J	0.00246 U	0.00311 U	NA	NA	0.00325 UJ	0.273 U	0.00210 UJ	0.00223 U	0.0108 UJ	0.216 J	0.239 J	0.00355 UJ	1.03 U	0.215 J	0.00874 UJ	0.00778 UJ	0.00257 UJ	0.00304 U	0.00378 U	0.777 U	0.185	
Toluene	7	0.00507	0.000927 U	0.0745 J	0.000924 U	0.00116 U	NA	NA	0.00122 UJ	0.273 U	0.000787 UJ	0.000837 U	0.132 J	0.280 J	0.328 J	0.00133 UJ	1.03 U	1.34 U	0.801 U	0.00292 UJ	0.000965 UJ	0.00114 U	0.00142 U	0.777 U	0.583 U	
Xylenes, total	9	0.165	0.00618 U	0.620 J	0.00616 U	0.00777 U	NA	NA	0.00812 UJ	0.819 U	0.00525 UJ	0.00558 U	2.33 U	0.974 J	1.41 J	0.00888 UJ	3.10 U	0.899 J	2.40 U	2.15 U	0.00643 UJ	0.00760 U	0.00946 U	2.33 U	1.75 U	
Methyl tert-butyl ether (MTBE)	0.1	0.000915 U	0.000618 U	0.00168 U	0.000616 U	0.000777 U	NA	NA	0.000812 UJ	0.137 U	0.000525 U	0.000558 U	0.00270 UJ	0.00310 U	0.00325 U	0.000888 U	0.00324 UJ	0.00253 U	0.00219 U	0.00194 U	0.000643 UJ	0.000760 U	0.000946 U	0.00218 UJ	0.00141 U	
TPHs (mg/kg)																										
Gasoline-Range	30 / 100 ^a	14.5 J	7.33 U	121 J	7.61 U	19.1 U	NA	NA	7.51 J	13.7 U	7.94 U	6.27 U	203	204 J	180 J	13.0 U	31.5 J	183 J	40.1 U	22.5 J	6.53 U	2.27 J	10.2	17.4 J	14.8 J	
Diesel-Range	2,000	36.9	12.3 U	6,870	12.7 U	15.2 U	NA	NA	212	13.0 U	46.8	22.4	44,200	12,700 J	4,970 J	19.9	583	2,010	523	398	12.9 U	13.1 U	13.6 U	438	216	
Lube Oil-Range	2,000	92.7	30.7 U	19,900	31.8 U	38.1 U	NA	NA	537	32.6 U	57.9	32.6 U	59,100	14,200 J	6,540 J	44.6 U	412	3,010	96.4	80.3 U	32.3 U	32.7 U	34.0 U	135	373	
Kerosene-Range	2,000	15.8	12.3 U	1,030	12.7 U	15.2 U	NA	NA	33.1	13.0 U	14.3	13.0 U	8,490	2,070 J	790 J	17.8 U	336	334	37.0 U	32.1 U	12.9 U	13.1 U	13.6 U	37.2 U	35.3	
PAHs (mg/kg)																										
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	0.0304	0.00618 U	5.96 U	0.00616 U	0.00777 U	NA	NA	0.00812 U	5.46 U	0.00525 UJ	0.00558 U	15.5 U	18.0 U	0.0325 U	0.00888 UJ	0.0324 UJ	0.0253 UJ	0.0219 UJ	0.0194 UJ	0.00643 U	0.00760 U	0.00946 U	15.5 U	11.7 U	
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs (mg/kg) ^c	NE	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (mg/kg)																										
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	3.34	NA	NA	NA	21.4	18.0	NA	NA	5.85	1.89 U	1.57 U	NA	NA	NA	NA	NA	NA
Barium	NE	NA	NA	NA	NA	NA	NA	NA	NA	96.2	NA	NA	NA	516 J	237 J	NA	NA	106	18.9 U	15.7 U	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	0.663 U	NA	NA	NA	2.29 U	2.30 U	NA	NA	2.14 U	1.89 U	1.57 U	NA	NA	NA	NA	NA	NA
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	NA	45.1	NA	NA	NA	9.16	7.13	NA	NA	5.81	1.89 U	1.57 U	NA	NA	NA	NA	NA	NA
Lead	250	19.4 J	3.04	250 J	12.0	1,130	485 J	186 J	837 J	4.50	10.5 J	13.1 J	4,660 J	6,410 J	3,440 J	7.40	34.5	9.06	2.61	5.78	4.38	3.86	2.70	39.0	NA	
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	NA	1.33 U	NA	NA	NA	4.58 U	4.60 U	NA	NA	4.27 U	3.78 U	3.14 U	NA	NA	NA	NA	NA	NA
Silver	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.633 U	NA	NA	NA	2.29 U	2.30 U	NA	NA	2.14 U	1.89 U	1.57 U	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Metals (mg/L)																										
Lead	5 ^(d)	NA	NA	1.00 U	NA	1.00 U	NA	NA	6.66	NA	NA	NA	2.81	11.0	8.32	NA	NA	1.00 U	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/claro/Reporting/CLARCReporting.aspx>).

DUP - Field duplicate

J - Estimated value

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PAHs - Polynuclear aromatic hydrocarbons

TPHs - Total petroleum hydrocarbons

U - Compound was analyzed for but not detected above the reporting limit shown.

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VOCs - Volatile organic compounds

TTEC - Total Toxicity Equivalent Soil Concentration

^a The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.

^b These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC-173-340 Toxicity Equivalent Soil Concentration calculations.

^c Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and benzo(g,h,i)perylene). None dibenzo [l,e], (a,h), (a,i), and (a,l)] pyrenes and dibenzo(a,j) acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analysis list. The waste characterization is determined based on an exceedance of a 1% total PAHs as described in WAC 173-303-100.

^d WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	E2		E3		E4		E5		E9		E10		E11		E12		E13		E14		E15		F1		F2		F3		F4		F5						
		4/29/2009 14	4/29/2009 14	4/29/2009 9	4/24/2009 14	4/24/2009 14	5/12/2009 7	5/11/2009 9	4/13/2009 14	4/22/2009 7	4/15/2009 9	4/13/2009 14	4/21/2009 9	4/13/2009 14	4/13/2009 14	4/13/2009 14	4/6/2009 14	5/22/2009 4	5/15/2009 7	5/4/2009 9	5/4/2009 14	4/29/2009 14	4/29/2009 14	4/27/2009 14	4/27/2009 14	4/27/2009 14	4/27/2009 14	4/27/2009 14	4/27/2009 14									
VOCs (mg/kg)																																						
Benzene	0.03	0.000970 U	0.00101 U	0.000785 U	0.0381	0.00144 U	0.000951 U	0.00176 U	0.00443 U	0.00325 U	0.131 J	0.00358 U	0.00565 J	0.0291 J	0.206 U	0.00543 U	0.000859 U	0.00310	5.99	6.27	0.00102 U	0.00422	0.000855 U	0.0191	0.00182													
Ethylbenzene	6	0.00259 U	0.00269 U	0.00209 U	0.0319 J	0.00383 U	0.00254 U	0.00469 U	0.0118 UJ	0.00866 U	0.0563 J	0.262 J	0.0138 UJ	0.112 J	0.0151 UJ	0.0145 UJ	0.00229 U	0.00385 U	0.989 U	0.700 U	0.0166	0.00574	0.00228 UJ	0.00927	0.00276 U													
Toluene	7	0.000970 U	0.00101 U	0.000785 U	0.000626 U	0.00144 U	0.000951 U	0.00176 U	0.115 J	0.00325 U	0.0422 J	0.0514 J	0.00516 UJ	0.0609 J	0.00566 UJ	0.00543 UJ	0.000859 U	0.00144 U	0.989 U	0.700 U	0.00102 U	0.00111 U	0.000855 UJ	0.000926 U	0.00104 U													
Xylenes, total	9	0.00647 U	0.00673 U	0.00524 U	0.319 U	0.00958 U	0.00634 U	0.0117 U	0.0295 UJ	0.0217 U	0.179 J	0.432 J	3.20 U	0.399 J	0.0378 UJ	0.0362 UJ	0.00573 U	0.000963 U	2.97 U	2.10 U	0.00779	0.00927	0.00570 UJ	0.00617 U	0.00690 U													
Methyl tert-butyl ether (MTBE)	0.1	0.000647 U	0.000673 U	0.000524 U	0.000418 U	0.000958 U	0.000634 U	0.00117 U	0.00295 U	0.00217 U	0.000849 UJ	0.00239 U	0.00344 U	0.00310 U	0.00378 U	0.00362 U	0.000573 U	0.000963 U	0.00321 U	0.00281 U	0.000682 U	0.000740 U	0.000570 U	0.000617 U	0.000690 U													
TPHs (mg/kg)																																						
Gasoline-Range	30 / 100 *	2.10 J	6.04 U	1.55 J	1.92 J	15.6 U	6.49 U	8.89 J	41.8 J	39.5 U	9.63 J	104 J	21.3 J	110 J	51.5 U	49.7 U	4.16 U	9.95 U	25.4 J	25.5 J	2.84 J	2.45 J	6.88 U	5.65 U	5.70 U													
Diesel-Range	2,000	12.4 U	12.3 U	11.8 U	12.0 U	19.4 U	12.3 U	210	272	542	1,260	30,800	479	835	87.7	634	12.2 U	16.4 U	308	630	25.1	13.4 U	127 J	11.8 U	12.1 U													
Lube Oil-Range	2,000	31.0 U	30.8 U	29.4 U	30.0 U	48.4 U	30.8 U	368	570	72.6 U	1,780	39,600	271	914	110 U	740	30.5 U	41.1 U	158	143	45.0	33.4 U	181 J	29.6 U	30.1 U													
Kerosene-Range	2,000	12.4 U	12.3 U	11.8 U	12.0 U	19.4 U	12.3 U	36.3	47.7	311	420	5,200 J	285	99.5	44.0 U	73.1	12.2 U	16.4 U	140	49.6	12.6 U	13.4 U	31.2	11.8 U	12.1 U													
PAHs (mg/kg)																																						
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(a)anthracene (ba)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(a)pyrene (ba)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(b)fluoranthene (bb)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(k)fluoranthene (bk)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(ghi)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chrysene (ch)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dibenz(a,h)anthracene (diba)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Indeno(1,2,3-cd)pyrene (id)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Naphthalene	5	0.00647 U	0.00673 U	0.00524 U	2.13 U	0.0133	0.00634 U	0.0117 UJ	19.2 U	0.0217 UJ	4.02 U	10.3 U	0.0344 UJ	19.2 U	0.0378 UJ	0.0362 UJ	0.00573 U	0.00963 U	0.0321 UJ	14.0 U	0.00682 U	0.00740 U	0.00570 U	0.0144	0.00690 U													
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TTEC Concentration (c-PAHs)																																						
Total PAHs (mg/kg) ^c	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Metals (mg/kg)																																						
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	4.14	NA	NA	28.3	NA	5.49	2.17 U	2.19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Barium	NE	NA	NA	NA	NA	NA	NA	NA	106	NA	NA	465	NA	84.1	30.4	21.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	2.23	NA	NA	1.40 U	NA	2.32 U	2.17 U	2.19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	18.3	NA	NA	30.4	NA	13.7	2.17 U	2.19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Lead	250	10.9 J	24.5 J	2.43 J	2.30 J	19.4 J	2.76	101	518	9.04 J	80.2 J	6,500	74.7	227	21.1	33.6	17.0	6.70	15.0	2.54	11.5	64.1 J	35.6 J	3.13	4.02													
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	4.45 U	NA	NA	2.80 U	NA	4.64 U	4.34 U	4.38 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Silver	NE	NA	NA	NA	NA	NA	NA	NA	2.23 U	NA	NA	1.40 U	NA	2.32 U	2.17 U	2.19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
TCPLP Metals (mg/L)																																						
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	1.00 U	NA	NA	2.54	NA	1.00 U	NA	NA	NA																					

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	F8		F9		F10		F11		F12		F13		F14		F15		G1		G2		G3		G4		
		5/12/2009 7	5/12/2009 7	5/12/2009 9	4/2/2009 14	4/22/2009 9	4/10/2009 14	4/21/2009 7	4/15/2009 9	4/10/2009 14	4/23/2009 6	4/21/2009 9	4/10/2009 14	4/10/2009 14	4/15/2009 9	4/6/2009 14	5/20/2009 4	5/4/2009 9	5/4/2009 14	5/21/2009 6	4/29/2009 14	5/21/2009 7	4/29/2009 14	4/27/2009 14		
VOCs (mg/kg)																										
Benzene	0.03	0.000906 U	0.000999 U	0.000928 U	0.00941 U	0.000737 U	0.0791	0.000620 U	0.203 U	0.0121	0.00105 UJ	0.233	0.0844	0.225 U	0.000777 U	1.23	0.00554	3.02	0.0925 J	0.000886 U	0.00418 U	0.000832 U	0.0132	0.0142 J	0.000935 U	
Ethylbenzene	6	0.00242 U	0.00266 U	0.00248 U	0.0251 UJ	0.00196 U	0.0364	0.00165 U	0.0108 UJ	0.201 J	0.00279 UJ	0.0129 UJ	0.987 U	1.12 U	0.00207 U	32.2	0.00281 U	0.706 U	0.712 U	0.00236 U	0.175 J	0.00222 U	0.260 J	0.136 J	0.00249 U	
Toluene	7	0.000906 U	0.000999 U	0.000928 U	0.00941 UJ	0.000737 U	0.0330	0.000620 U	1.01 U	1.26 U	0.00105 UJ	0.970 U	0.987 U	1.12 U	0.000777 U	0.617	0.00105 U	0.706 U	0.712 U	0.000886 U	0.797 U	0.000832 U	0.0867 J	0.0681 J	0.000935 U	
Xylenes, total	9	0.00604 U	0.00666 U	0.00619 U	0.0628 UJ	0.00491 U	0.118	0.00414 U	3.04 U	3.77 U	0.00697 UJ	0.0322 UJ	0.474 J	0.371 J	0.00518 U	110	0.00703 U	2.12 U	2.13 U	0.00591 U	2.39 U	0.00555 U	0.451 J	0.215 J	0.00624 U	
Methyl tert-butyl ether (MTBE)	0.1	0.000604 U	0.000666 U	0.000619 U	0.00628 UJ	0.000491 U	0.000867 U	0.000414 U	0.00270 U	0.00367 U	0.000697 UJ	0.00322 UJ	0.00283 U	0.00270 U	0.000518 U	0.0553 U	0.000703 U	0.00232 U	0.00349 U	0.000591 U	0.00279 U	0.000555 U	0.00192 U	0.00143 U	0.000624 U	
TPHs (mg/kg)																										
Gasoline-Range	30 / 100 ^a	6.86 U	6.52 U	5.55 U	23.6 J	6.17 U	25.5 J	5.36 U	44.6 J	43.8 J	6.75 U	48.5 U	23.0 J	17.8 J	5.09 U	1,290	6.73 U	15.6 J	46.1 U	5.64 U	40.4 J	5.74 U	32.5 J	31.8 J	5.64 U	
Diesel-Range	2,000	12.0 U	12.1 U	12.7 U	2,120 J	27.9	535	12.2 U	747	13,000 J	12.5 U	350	538	150	11.9 U	15.1	12.8 U	565	534	11.7 U	80.6	12.1 U	2,560	1,840	11.8 U	
Lube Oil-Range	2,000	30.0 U	30.3 U	31.7 U	2,830 J	39.5	746	30.6 U	436	23,300 J	31.3 U	305	471	271	29.8 U	31.0 U	31.9 U	195	599	29.3 U	98.0	30.2 U	5,060	3,220	29.5 U	
Kerosene-Range	2,000	12.0 U	12.1 U	12.7 U	674 J	11.4 U	96.5	12.2 U	369	995 J	12.5 U	202	43.3 U	49.9 U	11.9 U	37.7	12.8 U	39.0	115	11.7 U	38.6 U	12.1 U	409	291	11.8 U	
PAHs (mg/kg)																										
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(ba)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(ba)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(bb)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(bk)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(ch)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(dha)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(idp)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	0.00604 U	0.00666 U	0.00619 U	0.0628 UJ	0.00491 U	0.0111	0.00414 U	20.3 U	0.0367 UJ	0.00697 U	0.0322 UJ	19.7 U	0.0270 UJ	0.00518 U	9.06	0.00703 U	14.1 U	0.0349 UJ	0.00591 U	15.9 U	0.00555 U	0.0192 UJ	0.0161 U	0.00624 U	
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)																										
Total PAHs (mg/kg) ^c	NE	NA	NA	NA	NA	NA	0.0111	NA	NA	NA	NA	NA	NA	NA	NA	9.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (mg/kg)																										
Arsenic	20	NA	NA	NA	NA	NA	5.79	NA	NA	2.29	NA	NA	1.24 U	1.39 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NA	NA	NA	NA	NA	114	NA	NA	29.3	NA	NA	13.6	30.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	0.531	NA	NA	1.46 U	NA	NA	1.24 U	1.39 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	34.2	NA	NA	2.61	NA	NA	1.53	1.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	250	1.80	1.85	1.37	205	19.3 J	357	2.49	164 J	1,590	1.69	24.7	54.0	41.0	1.47 J	16.8	3.76	5.71	24.3	1.45	7.65 J	2.37	2,050 J	881 J	3.60	
Selenium	NE	NA	NA	NA	NA	NA	0.857 U	NA	NA	2.92 U	NA	NA	2.49 U	2.77 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NE	NA	NA	NA	NA	NA	0.429 U	NA	NA	1.46 U	NA	NA	1.24 U	1.39 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Metals (mg/L)																										
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	1.00 U	1.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.56	2.13	NA	

Notes:

Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/clarc/Reporting/CLARCReporting.aspx>).

DUP - Field duplicate

J - Estimated value

NA - Not applicable

NE - Not established

PAHs - Polynuclear aromatic hydrocarbons

TPHs - Total petroleum hydrocarbons

U - Compound was analyzed for but not detected above the reporting limit shown.

UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.

VOCs - Volatile organic compounds

TTEC - Total Toxicity Equivalent Soil Concentration

^a The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.

^b These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC-173-340 Toxicity Equivalent Soil Concentration calculations.

^c Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(e)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene. Note dibenzo [f,g,h], (i,j), (k,l), and (m,n) pyrenes and dibenzo(a,j) acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analyze list. The waste characterization is determined based on an exceedance of a 1% total PAHs as defined in WAC 173-303-100.

^d WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	G5		G8		G9		G10		G11		G12		G13		G14		G15		H1		H2		H3		H4		H5			
		4/27/2009 14	5/12/2009 7	4/20/2009 14	5/12/2009 7	4/20/2009 14	5/13/2009 7	4/2/2009 14	4/10/2009 14	4/21/2009 9	4/10/2009 14	4/21/2009 9	4/10/2009 14	4/10/2009 14	4/15/2009 9	4/6/2009 14	5/19/2009 4	5/4/2009 9	5/4/2009 14	4/30/2009 14	4/30/2009 14	4/27/2009 14	4/27/2009 14	5/1/2009 7	4/27/2009 14	4/27/2009 14	4/27/2009 14	4/27/2009 14	4/27/2009 14		
VOCs (mg/kg)																															
Benzene	0.03	0.00786	0.00173 U	0.436	0.00136 U	0.208 J	0.000964 U	0.00578 U	0.00101 U	0.00135 U	0.312 U	0.000849 U	0.144	0.00686 U	0.000791 U	0.0682	0.00114 U	4.74	0.000938 U	0.0229	0.00108 U	0.00129 U	0.000979 U	0.0493	0.0500						
Ethylbenzene	6	0.119	0.00461 U	0.176 J	0.00364 U	1.30 U	0.00257 U	0.0154 U	0.221 U	0.00361 U	1.56 U	0.00226 U	0.565	0.0183 UJ	0.00211 U	0.508	0.00304 U	0.820 U	0.00250 U	0.0143 UJ	0.00289 U	0.00345 U	0.00261 U	0.472	0.369						
Toluene	7	0.00105 U	0.00173 U	0.166 J	0.00136 U	0.169 J	0.000964 U	0.00578 U	0.221 U	0.00135 U	1.56 U	0.000849 U		0.00686 UJ	0.000791 U	0.0382	0.00114 U	0.820 U	0.000938 U	0.107 J	0.00108 U	0.00129 U	0.000979 U	0.00630 J	0.0204 J						
Xylenes, total	9	0.0829	0.0115 U	0.705 J	0.00909 U	3.90 U	0.00643 U	0.0386 U	0.662 U	0.00903 U	4.67 U	0.00566 U	3.67 J	0.0139	0.644	0.00760 U	0.0320 UJ	0.00625 U	3.21 U	0.00721 U	0.00862 U	0.00653 U	0.263	0.177							
Methyl tert-butyl ether (MTBE)	0.1	0.000698 U	0.00115 U	0.00216 UJ	0.000909 U	0.00250 UJ	0.000643 U	0.00386 U	0.000674 U	0.000903 U	0.00413 UJ	0.000566 U	0.00424 U	0.00457 U	0.000527 U	0.000410 U	0.000760 U	0.00320 U	0.000625 U	0.00358 U	0.000721 U	0.000862 U	0.000653 U	0.000887 U	0.000917 U						
TPHs (mg/kg)																															
Gasoline-Range	30 / 100 *	6.25	14.7 U	184 J	12.8 U	63.9 J	6.29 U	48.5 U	11.0 U	9.85 U	306 J	5.42 U	155 J	20.8 J	5.73 U	17.2	7.03 U	28.1 J	6.92 U	20.5 J	6.80 U	7.79 U	6.09 U	78.4 J	81.8 J						
Diesel-Range	2,000	11.8 U	19.0 U	165	17.8 U	8,440	11.9 U	39.2	32	14.7 U	5,610	12.2 U	1,130	385	12.0 U	11.8 U	12.8 U	317	11.3 U	263	12.7 U	13.6 U	11.9 U	64.1	101						
Lube Oil-Range	2,000	29.4 U	47.6 U	205	44.5 U	7,520	29.8 U	124 U	52.6	36.7 U	9,450	30.4 U	1,640	208	29.9 U	29.5 U	32.0 U	104	28.2 U	738	31.8 U	34.0 U	29.7 U	99.6	117						
Kerosene-Range	2,000	11.8 U	19.0 U	55.9	17.8 U	3,520	11.9 U	49.5 U	15.5 U	14.7 U	802	12.2 U	161	53.4 U	12.0 U	11.8 U	12.8 U	40.5 U	11.3 U	50.0 U	12.7 U	13.6 U	11.9 U	23.7	37.8						
PAHs (mg/kg)																															
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	0.0519	0.0115 U	20.7 U	0.00909 U	26.0 U	0.00643 U	0.0386 UJ	0.00674 UJ	0.00903 UJ	31.2 U	0.00566 U	29.1 U	0.0457 UJ	0.00527 U	0.0421	0.00760 U	0.0320 UJ	0.00625 U	0.0358 UJ	0.00721 U	0.00862 U	0.00653 U	0.107	0.0833						
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs (mg/kg) [†]	NE	0.0519	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0421	NA	NA	NA	NA	NA	NA	NA	NA	0.107	0.0833					
Total Metals (mg/kg)																															
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	2.02	NA	3.72	NA	4.29	1.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	NE	NA	NA	NA	NA	NA	NA	NA	49.1	NA	26.3	NA	42.6	25.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	0.329 U	NA	1.83 U	NA	1.35 U	1.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	19 (Cr ⁶⁺)/2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	20.0	NA	2.61	NA	6.37	1.78	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	250	5.08	11.9	392	11.5	360	2.02	532	12.7	2.46	709	1.38	251	17.3	2.05 J	8.32	2.44	11.7	1.54	97.0	11.3	6.86	2.15	33.1	34.9						
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	0.658 U	NA	3.65 U	NA	2.71 U	2.59 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	NE	NA	NA	NA	NA	NA	NA	NA	0.329 U	NA	1.83 U	NA	1.35 U	1.30 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Metals (mg/L)																															
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	1.00 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:
 Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://forrest.wa.gov/ecy/clearing/CLAR/Reporting.aspx>).
 DUP - Field duplicate
 J - Estimated value
 NA - Not applicable
 NE - Not established
 PAHs - Polynuclear aromatic hydrocarbons
 TPHs - Total petroleum hydrocarbons
 U - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.
 UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.
 VOCs - Volatile organic compounds
 TTEC - Total Toxicity Equivalent Soil Concentration
 * The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.
 † These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC-173-340 Toxicity Equivalent Soil Concentration calculations.
 ‡ Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthylene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and benzo(ghi)perylene). Note dibenzo[a,e], [a,h], [f,i], and [g,l] pyrenes and dibenzo[a,j] acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analysis list. The waste characterization is determined based on an exceedance of a 1% total PAHs as described in WAC 173-303-100.
 § WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	H6		H7		H8		H9		H10		H11		H12		H13		H14		H15		I1		I2		
		5/1/2009	4/9/2009	5/1/2009	4/8/2009	5/1/2009	4/8/2009	4/2/2009	4/28/2009	4/28/2009	4/8/2009	4/28/2009	4/15/2009	4/28/2009	4/10/2009	4/20/2009	4/10/2009	4/20/2009	4/10/2009	4/15/2009	4/10/2009	5/28/2009	5/28/2009	5/28/2009	4/30/2009	
VOCs (mg/kg)																										
Benzene	0.03	0.00128 U	0.00102 U	0.00107 U	0.677	0.000999 U	0.149	0.00218 U	0.00105 U	0.00260 UJ	0.771	0.00101 U	0.00537 U	NA	0.00795	0.00100 U	0.0628	0.000932 UJ	0.251 U	0.000740 U	0.114	0.00112 U	0.0508	0.00106 U	0.00390 U	
Ethylbenzene	6	0.00343 U	0.00273 U	0.00284 U	0.147 J	0.00266 U	0.0366 J	0.00582 U	0.00281 U	0.00694 UJ	2.41	0.00268 U	0.0143 UJ	NA	0.0112 UJ	0.00267 U	1.96	0.00248 UJ	1.26 U	0.00197 U	0.168 J	0.00298 U	0.0379 J	0.00282 U	0.0104 U	
Toluene	7	0.00128 U	0.00102 U	0.00107 U	0.121 J	0.000999 U	0.103 J	0.00218 U	0.00105 U	0.00260 UJ	0.709 UJ	0.00101 U	0.00537 UJ	NA	1.03 U	0.00100 U	0.177	0.000932 UJ	1.26 U	0.000740 U	1.20 U	0.00112 U	0.0143	0.00106 U	0.00390 U	
Xylenes, total	9	0.00856 U	0.00682 U	0.00711 U	0.449 J	0.00666 U	0.176 J	0.0146 U	0.00703 U	0.0173 UJ	9.27	0.00670 U	0.0358 UJ	NA	3.08 U	0.00668 U	9.64	0.00621 UJ	3.77 U	0.00493 U	0.996 J	0.00745 U	0.145 J	0.00704 U	0.0260 U	
Methyl tert-butyl ether (MTBE)	0.1	0.000856 U	0.000682 U	0.000711 U	0.00230 U	0.000666 U	0.000596 UJ	0.00146 U	0.000703 U	0.00173 UJ	0.00243 UJ	0.000670 U	0.00358 UJ	NA	0.00281 U	0.000668 U	0.000998 U	0.000621 UJ	0.00368 UJ	0.000493 U	0.00370 U	0.000745 U	0.000675 U	0.000704 U	0.00260 U	
TPHs (mg/kg)																										
Gasoline-Range	30 / 100 ^a	10.3 U	4.24 J	5.93 U	204 J	5.94 U	8.70	12.3 J	6.85 U	6.56 J	214 J	6.72 U	42.2 U	NA	16.5 J	6.12 U	133 J	6.93 U	49.5 J	5.21 U	48.6 J	7.56 U	2.20 J	5.82 U	15.0 J	
Diesel-Range	2,000	16.0 U	13.7 U	11.2 U	3,410	11.7 U	113	226	NA	NA	864	13.0 U	4,680	NA	6,290	12.2 U	135	12.3 U	3,300	12.4 U	191	13.8 U	12.7 U	11.5 U	364	
Lube Oil-Range	2,000	40.0 U	34.3 U	28.0 U	3,360	29.1 U	125	306	NA	NA	1,240	32.6 U	11,300	NA	11,200	30.5 U	182	30.7 U	3,780	31.1 U	438	34.5 U	31.6 U	28.8 U	649 J	
Kerosene-Range	2,000	16.0 U	13.7 U	11.2 U	1,340	11.7 U	43.8	81.5	NA	NA	279	13.0 U	1,040	NA	1,010	12.2 U	43.8	12.3 U	512	12.4 U	54.3 U	13.8 U	12.7 U	11.5 U	68.3	
PAHs (mg/kg)																										
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	0.00856 UJ	0.00682 U	0.00711 U	13.4 UJ	0.00666 U	2.44 U	0.0214	0.00703 U	0.0173 UJ	15.6 U	0.00670 U	0.0358 UJ	NA	0.0281 UJ	0.00668 U	3.29 U	0.00621 UJ	0.0368 UJ	0.00493 U	0.0370 UJ	0.00745 U	0.0351	0.00704 U	0.0260 U	
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs (mg/kg)^c	NE	NA	NA	NA	NA	NA	NA	0.0214	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0	NA	NA	
Total Metals (mg/kg)																										
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.6	NA	6.63	NA	3.32	NA	4.47	NA	NA	NA	NA	NA
Barium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	78.2	NA	121	NA	22.0	NA	48.8	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.61 U	NA	0.653 U	NA	1.61 U	NA	1.31 U	NA	NA	NA	NA	NA
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.1	NA	34.9	NA	4.16	NA	11.3	NA	NA	NA	NA	NA
Lead	250	1.45	16.6	1.28	332	2.05	377	112	2.39 J	18,900 J	1,450	1.61 J	1,010 J	120 J	1,740	2.68	87.5	1.60	745	1.54 J	196	9.91 J	5.71 J	1.32 J	307	
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.22 U	NA	1.31 U	NA	3.21 U	NA	2.63 U	NA	NA	NA	NA	NA
Silver	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.61 U	NA	0.653 U	NA	1.61 U	NA	1.31 U	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Metals (mg/L)																										
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	NA	57.7	7.47	NA	1.00 U	NA	10.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/claro/Reporting/CLARCRpt.aspx>).
DUP - Field duplicate
J - Estimated value
NA - Not applicable
NE - Not established
PAHs - Polynuclear aromatic hydrocarbons
TPHs - Total petroleum hydrocarbons
U - Compound was analyzed for but not detected above the reporting limit shown.
UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.
VOCs - Volatile organic compounds
TTEC - Total Toxicity Equivalent Soil Concentration
^a The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.
^b These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC-173-340 Toxicity Equivalent Soil Concentration calculations.
^c Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and benzo(ghi)perylene). Note dibenzo[a,e], [a,h], [a,i], and [a,l] pyrenes and dibenzo[a,j] acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analyte list. The waste characterization is determined based on an exceedance of a 1% total PAHs as described in WAC 173-303-100.
^d WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	I3 4/30/2009 14	I4 5/28/2009 4	I4 5/28/2009 7	I4 5/28/2009 9	I5 5/1/2009 14	I6 5/1/2009 14	I6 4/8/2009 14	I7 4/8/2009 14	I8 4/8/2009 14	I9 4/8/2009 14	I9 4/13/2009 9	I10 4/8/2009 14 (DUP)	I11 4/9/2009 14	I12 4/9/2009 14	I13 4/20/2009 9	I13 4/10/2009 14	I14 4/20/2009 9	I14 4/10/2009 14	I15 4/15/2009 9	I15 4/10/2009 14	
VOCs (mg/kg)																						
Benzene	0.03	0.000943 U	0.00101 U	0.00224 U	0.0259	0.00864	0.00104 U	0.00112 U	0.0225 U	0.00403	0.00582 UJ	0.00640 U	4.16 J	0.157 J	0.00204 UJ	0.00543 UJ	0.000858 U	0.0560 J	0.000998 U	0.0128	0.00150 U	0.00852 U
Ethylbenzene	6	0.00252 U	0.00270 U	0.00712	0.777	0.128	0.00278 U	0.00299 U	0.112 U	0.0342	1.16 U	1.36 U	11.7 J	4.55 J	0.00544 UJ	0.0145 UJ	0.00229 U	0.859 J	0.00266 U	1.36 U	0.00400 UJ	1.83 U
Toluene	7	0.000943 U	0.00101 U	0.00224 UJ	0.0552 J	0.00208	0.00104 U	0.00112 U	0.112 U	0.00648	1.16 U	0.00640 UJ	0.722	0.743 J	0.00204 UJ	0.00543 UJ	0.000858 U	1.59 U	0.000998 U	1.36 U	0.00150 UJ	1.83 U
Xylenes, total	9	0.00629 U	0.00676 U	0.0176	1.94	0.155	0.00695 U	0.00748 U	0.337 U	0.106	3.49 U	4.09 U	9.79 J	4.16 J	0.0136 UJ	0.0362 UJ	0.00572 U	3.17 J	0.00665 U	4.08 U	0.0100 UJ	5.48 U
Methyl tert-butyl ether (MTBE)	0.1	0.00629 U	0.00676 U	0.00199	0.230 U	0.000680 U	0.000695 U	0.000748 U	0.0562 U	0.000954 U	0.00388 UJ	0.681 U	0.00290 U	0.00191 U	0.00136 UJ	0.00362 UJ	0.000572 U	0.00476 U	0.000665 U	0.00382 U	0.00100 U	0.00568 U
TPHs (mg/kg)																						
Gasoline-Range	30 / 100 *	6.40 U	6.30 U	14.8 U	49.9 J	305	3.33 J	8.74 U	5.62 U	7.35 J	58.2 U	20.2 J	740 J	279 J	3.95 J	56.0 U	5.86 U	96.2 J	6.11 U	92.8 J	9.26 U	104 J
Diesel-Range	2,000	12.7 U	12.5 U	46.6	106	12.4 U	12.4 U	14.3 U	11.5 U	44.3	51.1 U	129	697	571	33.5	322	11.6 U	315	11.9 U	3,840	15.6 U	2,490
Lube Oil-Range	2,000	31.7 U	31.4 U	124	128	31.0 U	30.9 U	35.6 U	28.7 U	64.6	128 U	272	1,110	857	69.1	666 J	29.0 U	503	29.8 U	6,050	39.0 U	4,250
Kerosene-Range	2,000	12.7 U	12.5 U	21.0 U	48.7	12.4 U	12.4 U	14.3 U	11.5 U	17.4 U	51.1 U	55.7 U	264	224	18.3 U	46.3 U	11.6 U	60.8 U	11.9 U	614	15.6 U	333
PAHs (mg/kg)																						
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	0.00629 U	0.00676 U	0.0149 UJ	9.19 U	0.0279	0.00695 U	0.00748 U	2.25 U	4.70 U	23.3 U	27.2 U	381 J	163 J	4.20 U	0.0362 UJ	0.00572 U	31.8 U	0.00665 U	0.0382 UJ	0.0100 UJ	0.0568 UJ
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs (mg/kg) †	NE	NA	NA	NA	NA	0.0279	NA	NA	NA	NA	NA	NA	381	163	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (mg/kg)																						
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.57	NA	NA	NA	NA	2.72	NA	2.14 U	NA	7.02	
Barium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.2	NA	NA	NA	NA	39.0	NA	21.4 U	NA	46.5	
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.93 U	NA	NA	NA	NA	2.19 U	NA	2.14 U	NA	1.85 U	
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	NA	NA	NA	NA	5.35	NA	2.14 U	NA	8.69	
Lead	250	6.47	2.67 J	65.9 J	45.7	38.9	32.5	77.1	5.43	39.7	60.7	91.6	323	243	48.2	242	1.48	76.3	2.44	566	3.40 J	1,800
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.86 U	NA	NA	NA	NA	4.38 U	NA	4.27 U	NA	3.70 U	
Silver	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.93 U	NA	NA	NA	NA	2.19 U	NA	2.14 U	NA	1.85 U	
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TCLP Metals (mg/L)																						
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4

Notes:

Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/claro/Reporting/CLARCRpt.aspx>).

DUP - Field duplicate

J - Estimated value

NA - Not applicable

NE - Not established

PAHs - Polynuclear aromatic hydrocarbons

TPHs - Total petroleum hydrocarbons

U - Compound was analyzed for but not detected above the reporting limit shown.

UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.

VOCs - Volatile organic compounds

TTEC - Total Toxicity Equivalent Soil Concentration

* The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.

† These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC-173-340 Toxicity Equivalent Soil Concentration calculations.

‡ Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene).

Note dibenzo(a,e), (a,h), (b,i), and (a,i) pyrenes and dibenzo(a,j) acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analyze list. The waste characterization is determined based on an exceedance of a 1% total PAHs as described in WAC 173-303-100.

§ WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC	MTCA Method A Soil Cleanup Level	J1		J2		J3		J4		J5		J6		J7		J8		J9		J10		J11		J12		J13	
		5/28/2009 9	5/28/2009 14	5/28/2009 4	5/28/2009 7	5/28/2009 9	5/1/2009 14	5/1/2009 14	5/1/2009 14	6/3/2009 9	5/1/2009 14	4/8/2009 14	4/8/2009 14	4/10/2009 9	4/8/2009 14	4/10/2009 9	4/8/2009 14	4/7/2009 14	4/14/2009 9	4/7/2009 14	4/14/2009 9	4/7/2009 14	4/14/2009 9	4/7/2009 14	4/14/2009 9	4/7/2009 14	
(DUP)																											
VOCs (mg/kg)																											
Benzene	0.03	0.00101 U	0.00637	0.000912 U	0.00930	0.0300	0.0147	0.0125	0.00515	0.00427	0.00111 U	0.0616	0.00105 U	0.00344 U	0.00636 U	0.00465 U	0.00583 U	0.00309	0.00104 UJ	0.000956 U	0.00444 U	0.00102 U	0.330 U	0.000793 UJ	0.203 U		
Ethylbenzene	6	0.00326	2.66	0.00243 U	0.0396	0.187 J	0.132 J	0.0108 J	0.0538	0.00533	0.00296 U	0.0961 J	0.00281 U	0.00918 U	0.0170 UJ	0.0124 UJ	0.0315	0.0153	0.0944 U	0.00255 U	1.19 U	0.00272 U	1.65 U	0.00212 U	1.01 U		
Toluene	7	0.00250	0.921	0.000912 U	0.0124	0.187 J	0.264 J	0.0565 J	0.00114 U	0.00236	0.00111 U	0.0215	0.00105 U	0.00344 U	0.00636 UJ	1.13 U	0.00583 U	0.00485	0.00104 UJ	0.000956 U	1.19 U	0.00102 U	1.65 U	0.000793 U	1.01 U		
Xylenes, total	9	0.00644	19.6	0.00608 U	0.201	0.708 J	0.314 J	0.0255 J	0.0819	0.0147	0.00740 U	0.361	0.00703 U	0.0229 U	0.0424 UJ	3.40 U	0.0389 U	0.0364	0.283 U	0.00638 U	3.57 U	0.00680 U	4.95 U	0.00529 U	3.10		
Methyl tert-butyl ether (MTBE)	0.1	0.000674 U	0.0544 U	0.000608 U	0.00313 U	0.00387 U	0.00206 U	0.00236 U	0.000760 U	0.000644 U	0.000740 U	0.000806 U	0.000703 U	0.00356	0.00729	0.00945	0.00400	0.00180 U	0.000696 UJ	0.000638 U	0.00296 U	0.000680 U	0.00259 UJ	0.000529 UJ	0.00302 U		
TPHs (mg/kg)																											
Gasoline-Range	30 / 100 ^a	5.61 U	270 J	6.20 U	11.4 J	18.3 J	83.3 J	69.8 J	5.48 J	5.43 J	6.52 U	16.4	5.78 U	19.1 U	77.7 U	56.4 U	66.2 U	184 J	4.72 U	4.73 J	59.4 U	6.13 U	266 J	5.86 U	50.7 U		
Diesel-Range	2,000	12.9 U	13.1 U	12.5 U	157	233	1,030	654	13.3 U	12.5 U	12.3 U	143	11.5 U	30.4	58.6 U	79.3	56.0 U	46.4	12.3 U	12.2 U	54.1 U	12.4 U	112	12.1 U	370		
Lube Oil-Range	2,000	32.3 U	32.7 U	31.3 U	301	321	2,570 J	930 J	33.2 U	31.3 U	30.7 U	35.4	28.9 U	68.5 U	146 U	150	140 U	87.8	30.9 U	30.5 U	135 U	30.9 U	247	30.2 U	673		
Kerosene-Range	2,000	12.9 U	13.1 U	12.5 U	36.9 U	49.6	213	165	13.3 U	12.5 U	12.3 U	18.7	11.5 U	27.4 U	58.6 U	54.6 U	56.0 U	29.6 U	12.3 U	12.2 U	54.1 U	12.4 U	59.8 U	12.1 U	118		
PAHs (mg/kg)																											
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(ghi)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Naphthalene	5	0.00674 U	1.50 J	0.00608 U	0.0313 UJ	19.7 U	12.6 U	0.0236 UJ	0.0171	0.00644 U	0.00740 U	0.145	0.00703 U	0.0229 UJ	0.0424 UJ	0.0310 UJ	0.0389 UJ	11.8 U	0.00696 UJ	0.00638 U	23.8 U	0.00680 U	33.0 U	0.00529 UJ	20.3 U		
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TTEC Concentration (c-PAHs)																											
Total PAHs (mg/kg) ^c	NE	NA	1.50	NA	NA	NA	NA	NA	0.0171	NA	NA	0.145	NA														
Total Metals (mg/kg)																											
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.87 U	NA	1.57	NA									
Barium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.5	NA	21.4	NA									
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.87 U	NA	1.48 U	NA									
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.73	NA	2.32	NA									
Lead	250	12.6 J	4.63 J	2.36 J	156 J	136 J	122	124	7.48	13.9	2.29	65.1	10.5	196	9.49	268	17.4	389	44.5	1.60 J	390	1.70 J	82.8	1.55 J	149		
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.74 U	NA	2.96 U	NA									
Silver	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.87 U	NA	1.48 U	NA									
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TCLP Metals (mg/L)																											
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Notes:

Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/clare/Reporting/CLARCRpt.asp>).

DUP - Field duplicate

J - Estimated value

NA - Not applicable

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PAHs - Polynuclear aromatic hydrocarbons

TPHs - Total petroleum hydrocarbons

U - Compound was analyzed for but not detected above the reporting limit shown.

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TTEC - Total Toxicity Equivalent Soil Concentration

^a The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.

^b These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC-173-340 Toxicity Equivalent Soil Concentration calculations.

^c Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and benzo(ghi)perylene).

Note dibenzo [(a,e), (a,h), (a,i), and (a,l)] pyrenes and dibenzo(a,j) acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analyte list. The waste characterization is determined based on an exceedance of a 1% total PAHs as described in WAC 173-303-100.

^d WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

Table 2
Summary of Soil Analytical Results
Area 1
Westlake-Mercer

Sample ID: Sample Date: Sample Elevation (Ft. above City of Seattle Datum): Field QC:	MTCA Method A Soil Cleanup Level	J14		J15		6/1/2009	K1		K2	K2	K3	K4	K4	K5	K6	K7		K8		K9		K10	SCB-4
		4/14/2009	4/7/2009	4/14/2009	4/7/2009		6/1/2009	6/1/2009								6/1/2009	5/1/2009	5/1/2009	5/5/2009	5/5/2009	4/8/2009		
		9	14	9	14	9	14	(DUP)	9	14	14	9	14	14	10.5	10.5	14	11.5	14	11.5	14	14	26.5
VOCs (mg/kg)																							
Benzene	0.03	0.000719 U	0.0169	0.000877 U	0.133 U	0.00104 U	0.000977 U	0.000967 U	0.000551 U	0.825	0.00653	0.00104 U	0.0941	0.00124 U	0.00422 UJ	0.00261 U	0.00163 U	0.00610 U	0.379 U	0.00542 UJ	0.00529	0.250 U	0.00540
Ethylbenzene	6	0.00192 U	0.977	0.00234 U	0.666 U	0.00277 U	0.0188	0.0216	0.00147 U	0.0138 UJ	0.00608	0.00278 U	0.0774	0.00330 U	1.16 U	0.00697 UJ	0.00434 U	0.0163 U	1.90 U	0.0145 UJ	0.0117 UJ	1.25 U	0.0403
Toluene	7	0.000719 U	0.292 U	0.000877 U	0.666 U	0.00104 U	0.000977 U	0.000967 U	0.000551 U	0.855 J	0.00100 U	0.00104 U	0.109	0.00131	1.16 U	0.00261 UJ	0.00163 U	0.00610 U	1.90 U	0.00542 UJ	0.631 U	1.25 U	0.00155 U
Xylenes, total	9	0.00479 U	4.25	0.00585 U	2.00 U	0.00692 U	0.0258	0.0394	0.00367 U	0.0344 UJ	0.0264	0.00695 U	0.0841	0.00825 U	3.48 U	0.0174 UJ	0.0109 U	0.0407 U	5.69 U	0.0361 UJ	1.89 U	3.75 U	0.0473
Methyl tert-butyl ether (MTBE)	0.1	0.000479 U	0.00124 U	0.000585 U	0.00257 UJ	0.000692 U	0.000651 U	0.000645 U	0.000367 U	0.00344 UJ	0.000670 U	0.000695 U	0.000581 U	0.000825 U	0.579 U	0.00174 U	0.00109 U	0.00488	0.00654 U	0.00361 U	0.00292 U	0.00288 U	NA
TPHs (mg/kg)																							
Gasoline-Range	30 / 100 ^a	5.71 U	113 J	6.29 U	57.1 J	6.43 U	36.9	36.8	4.48 U	36.0 J	7.01 U	6.78 U	11.1	8.08	57.9 U	27.1 U	10.9 U	53.5 U	94.8 U	54.2 U	14.1 J	62.5 U	13.6 U
Diesel-Range	2,000	11.9 U	137	12.0 U	686	12.1 U	12.2 U	12.4 U	12.3 U	1,080	13.0 U	12.5 U	11.9 U	155	54.0 U	105	17.5 U	102	59.7 U	147	87.3	57.4 U	13.7 U
Lube Oil-Range	2,000	29.7 U	220	30.1 U	392	30.3 U	30.5 U	31.0 U	30.6 U	744	32.4 U	31.2 U	29.8 U	317	135 U	242	43.7 U	123	149 U	363	245	143 U	34.3 U
Kerosene-Range	2,000	11.9 U	65.9	12.0 U	413	12.1 U	12.2 U	12.4 U	12.3 U	97.4	13.0 U	12.5 U	11.9 U	29.5	54.0 U	27.6	17.5 U	46.2 U	59.7 U	48.6 U	34.5 U	57.4 U	NA
PAHs (mg/kg)																							
Acenaphthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene ^(b)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene ^(b)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5	0.00479 U	5.83 U	0.00585 U	13.3 U	0.00692 U	0.0295	0.0399	0.00367 U	0.0344 UJ	0.00670 U	0.00695 U	0.00581 U	0.00825 U	0.0281 UJ	0.0174 UJ	0.0109 U	0.0407 UJ	0.0654 UJ	0.0361 UJ	0.0292 UJ	0.0288 UJ	NA
Phenanthrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTEC Concentration (c-PAHs)	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs (mg/kg)^c	NE	NA	NA	NA	NA	NA	0.0295	0.0399	NA	NA	NA	NA	NA	NA	NA	NA							
Total Metals (mg/kg)																							
Arsenic	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	19 (Cr ⁶⁺) / 2,000 (Cr ³⁺)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	250	1.48 J	218	1.57 J	66.0	1.46	4.50	5.49	2.57	153	5.53	2.42	7.12	11.6	17.1 U	64.2	316 J	30.0	23.2 J	79.4	125 J	22.4 U	NA
Selenium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCCLP Metals (mg/L)																							
Lead	5 ^(d)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Model Toxics Control Act (MTCA) Cleanup Regulation, chapter 173-340 WAC; MTCA Method A and B from Ecology website downloaded August 2009 (<https://fortress.wa.gov/ecy/clare/Reporting/CLARCReporting.aspx>).

DUP - Field duplicate

J - Estimated value

NA - Not applicable

NE - Not established

PAHs - Polynuclear aromatic hydrocarbons

TPHs - Total petroleum hydrocarbons

U - Compound was analyzed for but not detected above the reporting limit shown.

UJ - Compound was analyzed for but not detected above the reporting limit shown. The reporting limit is an estimated value.

VOCs - Volatile organic compounds

TTEC - Total Toxicity Equivalent Soil Concentration

^a The soil cleanup level is 100 mg/kg if benzene is not present and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture. The cleanup level for all other gasoline mixtures is 30 mg/kg.

^b These compounds are considered carcinogenic PAHs (c-PAHs) and are subject to WAC-173-340 Toxicity Equivalent Soil Concentration calculations.

^c Total PAHs are the sum of PAHs detailed by the WAC 173-303-040 (Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, and benzo(g,h,i)perylene).

Note dibenzo [(a,e), (a,h), (a,i), and (a,l)] pyrenes and dibenzo(a,j) acridine are not included as these compounds were not analyzed for and are not typically included in the PAH analyte list. The waste characterization is determined based on an exceedance of a 1% total PAHs as described in WAC 173-303-100.

^d WAC 173-303-090 - Dangerous Waste Criteria, dated July 31, 2009.

**Phase 2
Westlake/Mercer Cleanup Project
Seattle, Washington**

Soil Sampling Plan

February 9, 2009

Prepared for:



Prepared by:



URS Corporation
1501 4th Avenue, Suite 1400
Seattle, Washington 98101

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2	Soil Sampling Plan

1.0 INTRODUCTION

At the request of ConocoPhillips Company (ConocoPhillips), URS Corporation (URS) has prepared this Soil Sampling Plan for the Phase 2 site remediation/excavation activities associated with the Westlake/Mercer Cleanup Project at 600 Westlake Avenue North in Seattle, Washington. Excavation activities are scheduled to occur on the two private properties within the Westlake/Mercer Cleanup Site over several months beginning in January 2009. Sampling activities will be performed to maintain compliance with state and local agency requirements, as well as the settlement agreement.

2.0 PROJECT LOCATION

The project site consists of the two private properties bounded by Westlake Avenue N., Terry Avenue N., Mercer Street, and Valley Street, in Seattle, Washington.

The southernmost property includes two parcels located at 600 Westlake Avenue N and 966 Mercer Street owned by ConocoPhillips. The western portion of the ConocoPhillips property (600 Westlake Avenue N.) was formerly a 76-branded gasoline service station (Number 255353). The station was closed and demolished during 2008. The service station building, canopies, dispensers, signs, underground storage tanks (USTs), and subsurface fuel piping have been removed. The eastern portion of the ConocoPhillips property (966 Mercer Street) is currently an asphalt parking lot that is leased to West Marine for use as a parking lot. The West Marine retail store is located directly across Terry Avenue N. A Denny's restaurant was formerly located on this property. Approximately one half of the existing parking lot will be retained for parking by West Marine during Phase 2 construction, while the remaining half will be used by ConocoPhillips for construction purposes.

The northernmost property includes four parcels located at 965 Valley Street and is owned by City Investor's XI, L.L.C. (City Investor's). This property is commonly referred to as City Investor's Lot 14 (CI Lot 14). CI Lot 14 is currently a paved vacant lot (part asphalt and concrete) and is surrounded by a chain-link fence. A Unocal service station was formerly located on the northwestern portion of CI Lot 14. An approximate 7,000 square foot wood-framed two-story building (former Brace Lumber Building) was also formerly located on the eastern portion of CI Lot 14 property. Remaining structures on the CI Lot 14 property include several retaining walls, a chain-link perimeter fence, and a low-point sump (and pump). Until recently, a monopole sign was located at the northeast portion of the CI Lot 14 property in the vicinity of Valley Street and Terry Avenue N. The sign was removed in late December 2008, in preparation for the start of construction.

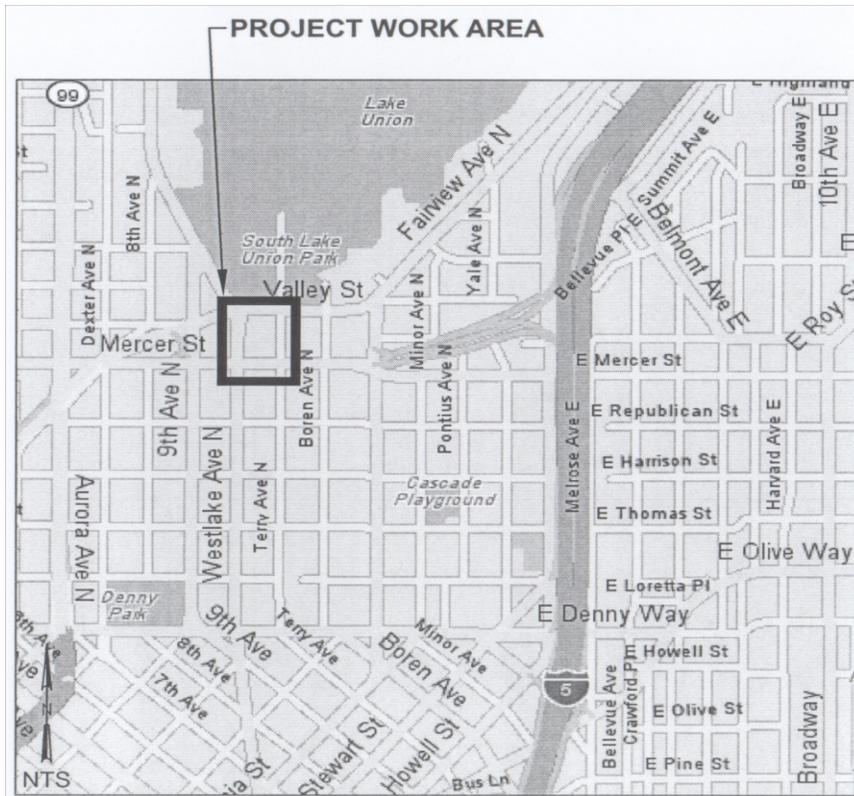


Figure 1: Site Vicinity Map

3.0 BACKGROUND AND SITE CONDITIONS

Numerous investigative and remedial site activities have been performed on and around the ConocoPhillips property since the 1980's. Results of investigative and remedial activities have indicated the presence of petroleum hydrocarbon impacts in subsurface soils and groundwater beneath the ConocoPhillips property, City Investors Lot 14, and portions of the surrounding Rights-of way (ROW). Recent pilot testing activities indicated soil vapors in the vicinity of Westlake Avenue North with concentrations of total petroleum hydrocarbons in the gasoline range (TPH-G) and benzene as high as 6,330 and 147 parts per million by volume (ppmv), respectively. Pilot testing results also indicated methane concentrations as high as 3.1% (31,000 ppmv) in soil vapors in the vicinity of Westlake Avenue North and as high as 9.5% (95,000 ppmv) in the vicinity of Terry Avenue North. Hydrogen sulfide concentrations in soil vapors were also detected as high as 8.5 ppmv in the vicinity of Terry Avenue North and as high as 0.12 ppmv in the vicinity of Westlake Avenue North. Recent groundwater monitoring at the site indicated that the maximum concentrations of petroleum hydrocarbons present at the site were located beneath the City ROW in Westlake Avenue North, immediately west of the ConocoPhillips station property.

In order to address these conditions, ConocoPhillips performed “Phase 1” remediation activities in portions of the City ROW at the Westlake/Mercer Cleanup Site from July 2006 to April 2007. The remedial activities included soil excavation of the eastern lanes of Westlake Avenue North, installation of air sparge (AS) wells and soil vapor extraction (SVE) trenches in the western lanes of Westlake Avenue North, and installation of SVE and enhanced fluid recovery (EFR) wells in Terry Avenue North. Approximately 17,000 tons of soil was excavated from the eastern lanes of Westlake Avenue North between Valley Street and Mercer Street. The excavation extended to approximately 15 feet below ground surface (bgs). The groundwater table was observed at 10 to 12 feet bgs. However, due to the construction methods and soil conditions, very little groundwater entered the excavation. The excavated soil consisted of brown to gray silty sand with traces of clay and organic matter. Wood debris was also present in the excavation throughout the subsurface including old trestle and pier supports.

Historical site activities have shown that subsurface soils directly beneath asphalt and/or concrete pavement on site primarily consist of silts and sands with varying amounts of clay and gravel to depths ranging from approximately 10 to 20 feet bgs. A layer of wood debris, ranging from trace amounts to as much as 10 feet in thickness, exists beneath many areas of the ConocoPhillips property, the adjacent City Investors property, and the surrounding City streets (Westlake, Mercer, Terry, and Valley). The wood layer was encountered at depths ranging from approximately 9 feet to 20 feet bgs. Peat is also present in many areas in the vicinity of Mercer Street at depths of approximately 16 to 19 feet bgs. Deeper exploration on the ConocoPhillips property and in Westlake Avenue North indicate that the wood layer is underlain by native silts and sands with varying amounts of clay in some locations. Depth to groundwater typically fluctuates between 9 and 12 feet bgs over much of the area.

4.0 PROJECT DESCRIPTION

Phase 2 of the Westlake/Mercer Cleanup Project is intended to address residual petroleum hydrocarbons and associated compounds present on the ConocoPhillips property and CI Lot 14. Phase 2 remedial excavation activities to the extent practicable, will consist of removal of petroleum hydrocarbon impacted soil exceeding Washington Department of Ecology Model Toxics Control Act (MTCA) Method A cleanup levels on the City Investors property and the majority of the ConocoPhillips property.

In total, approximately 36,300 cubic yards (cy) of soil and pavement are estimated to be excavated from the two properties, which include 17,300 cy from the ConocoPhillips property and 19,000 cy from the City Investors’ property. In general, soil will be excavated to approximately 14 feet above City of Seattle datum, which corresponds to approximately 15 feet below the surrounding grade.

Phase 2 excavation is divided into two areas. Area 1 is the City Investors property and will be approximately 240 feet by 180 feet. Area 2 is the majority of the ConocoPhillips property and will be approximately 160 feet by 180 feet. The Phase 2 excavation will begin in Area 1. Where necessary, the perimeter of the excavation will be shored using a soil/cement/bentonite gravity

wall which will be installed to a depth of 20 feet bgs. Confirmation sampling will not be possible below the base of the gravity wall. However, based on the results of previous investigations, installation of the shoring wall to a depth of 20 feet bgs will address any soil impacts above MTCA Method A Cleanup Levels, to the extent practicable that may have been present in the location of the gravity wall.

5.0 SOIL SAMPLING METHODOLOGY

The soil sampling program that will be performed during Phase 2 remedial excavation activities is intended to confirm whether petroleum hydrocarbon impacts exceeding MTCA Method A Cleanup levels remain in soils at the floor of the excavation. Soil will be sampled within each remedial excavation area at the maximum proposed depth of 15 feet bgs to assess concentrations at the floor of the excavation. If petroleum hydrocarbon impacts in soils are detected in concentrations exceeding MTCA Method A cleanup levels at 15 feet bgs, the excavation will continue down to as far as reasonably practicable depending on the horizontal and vertical extent of the contamination, the accessibility of the contamination, and other actual conditions in the field. While reasonable efforts will be made to remove substantially all such contaminated soil as described in the settlement agreement, any remaining residual soil contamination would undergo natural attenuation and the groundwater in the area would be monitored to confirm impacts have been removed.

5.1 SOIL SAMPLE DESIGNATION

For the purposes of soil sample identification, soil samples will be designated according to the sampling grid shown in Figure 2. Area 1 of the excavation will be sectioned into 11 rows (A through K), from north to south, and 15 columns (1, 2, 3, etc), from west to east. Area 2 of the excavation will be sectioned into 11 rows (A through K) from north to south, and 11 columns from west to east. In areas where more than 50 percent of the grid square is covered by the gravity wall or is outside of the excavation area, the grid square will not be sampled. These areas are marked with an "X" across the square on Figure 2.

Based on this grid, approximately 279 soil samples (not including quality assurance/quality control samples) will be collected during remedial excavations of Areas 1 and 2. Identification of soil samples collected from the excavation areas will consist of the area designation (Area1 or Area2), the sample grid row and column designation (i.e., A1, A2, etc.), and the sample depth. For example, a soil sample collected from a depth of fifteen feet within the northwest corner of Area 2 would be identified as Area2-A1-15. Duplicate soil samples will also be collected for quality control purposes at a rate of 5 percent, or 1 for every 20 samples, and will be identified as such (i.e.: Dup-1, Dup-2, etc.).

5.2 SOIL SAMPLING PROCEDURES

During remedial excavation activities, URS field sampling personnel will instruct the excavation contractor to bring up soil from the excavated area in order to enable collection of soil samples from a safe position. Representative soil samples will be collected from the bucket of the excavator in the middle of the bucket, away from the sides, screened for the presence of volatile organic vapors using a photo-ionization detector (PID), and placed in laboratory-supplied containers.

Samples will be preserved in laboratory-grade glass jars with Teflon™-lined lids, and labeled in accordance with WDOE specified sampling procedures. Soil samples to be analyzed for diesel- and oil-range petroleum hydrocarbons and other analytes will be packed into the glass jars by a technician using a new pair of nitrile gloves for each sample interval. Soil samples to be analyzed for volatile hydrocarbon fractions (gasoline-range petroleum hydrocarbons, benzene, toluene, ethylbenzene, xylenes, etc.) will be collected and preserved in the field using EPA Method 5035A, per Washington State Ecology requirements. Per the method 5035A requirements, each of these samples will be collected using a new disposable plastic syringe sampler provided by the laboratory, and placed into a methanol-preserved glass bottle.

Confirmation samples will be submitted to the laboratory for 24-hour turnaround to determine whether further excavation may be necessary.

5.3 DECONTAMINATION PROCEDURES

All sampling equipment will be decontaminated prior to use and between grid segments in order to minimize the potential for cross-contamination between locations. The decontamination procedures will include a pre-rinse with potable water, a phosphate-free detergent wash and a re-rinse with potable water.

5.4 SAMPLING DOCUMENTATION AND CHAIN-OF-CUSTODY PROCEDURES

Soil sampling data will be recorded on weatherproof field sheets or in a designated field notebook, and will include sample identification, sample date and time, sample location and depth, PID readings, and other notable field observations. Each sample will be labeled and properly sealed immediately after collection. All sample labels will include:

- Project name and number
- Sample identification
- Sample date and time
- Sample location
- Sample depth

Soil sample information will be recorded on chain-of-custody forms, which will accompany each sample cooler containing laboratory samples. URS field personnel will retain a copy of each chain-of-custody form, and original forms will be sent with the samples to the laboratory.

5.5 SAMPLE STORAGE, SHIPMENT, AND ANALYSIS

Soil samples will be stored in laboratory-prepared glass jars, individually labeled, and placed in a chilled cooler pending delivery to the analytical laboratory. The samples will be delivered to TestAmerica Analytical Testing Corporation of Bothell, Washington under standard chain-of-custody protocol. The soil samples will be analyzed for the following:

- Total petroleum hydrocarbons in the gasoline range (TPH-G) using Northwest Method NWTPH-Gx;
- Total petroleum hydrocarbons in the diesel (TPH-D) and oil (TPH-O) ranges using Northwest Method NWTPH Dx. TPH-D and TPH-O will be analyzed using an acid/silica gel cleanup method to minimize interference from biogenic sources which may be present in the samples;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), Methyl tert-Butyl Ether (MTBE), and Naphthalene using USEPA Method 8260; and
- Total lead using USEPA Series 6000 Methods.

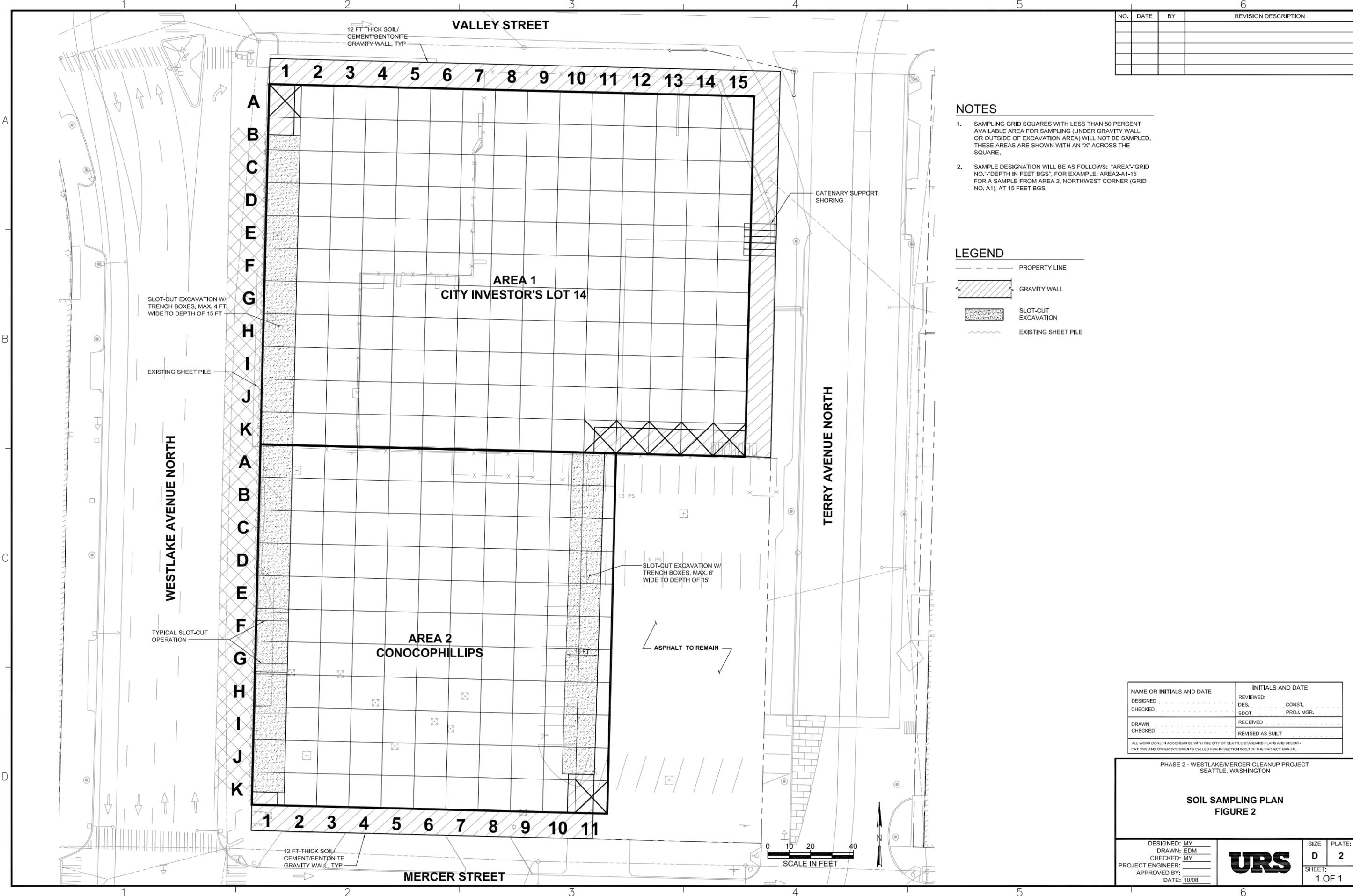
6.0 REPORTING

6.1 REPORT OF ENVIRONMENTAL ACTIVITIES

Soil sampling field data will be summarized and presented in a report. The report will include tables summarizing soil analytical results and field data and a site map showing sampling locations. Analytical laboratory reports and chain-of-custody documents will also be included as attachments to the report.

\\Sec4\cadgis\gec\Westlake COP\SubTasks\Soil Sampling Figure 2.dwg Oct 28, 2008 - 11:35am

NO.	DATE	BY	REVISION DESCRIPTION



NOTES

- SAMPLING GRID SQUARES WITH LESS THAN 50 PERCENT AVAILABLE AREA FOR SAMPLING (UNDER GRAVITY WALL OR OUTSIDE OF EXCAVATION AREA) WILL NOT BE SAMPLED. THESE AREAS ARE SHOWN WITH AN "X" ACROSS THE SQUARE.
- SAMPLE DESIGNATION WILL BE AS FOLLOWS: "AREA"-GRID NO."-DEPTH IN FEET BGS". FOR EXAMPLE: AREA2-A1-15 FOR A SAMPLE FROM AREA 2, NORTHWEST CORNER (GRID NO. A1), AT 15 FEET BGS.

LEGEND

- PROPERTY LINE
- GRAVITY WALL
- SLOT-CUT EXCAVATION
- EXISTING SHEET PILE

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED: _____	REVIEWED: _____
CHECKED: _____	DES. _____ CONST. _____
DRAWN: _____	SDOT _____ PROJ. MGR. _____
CHECKED: _____	RECEIVED _____
	REVISED AS BUILT _____

ALL WORK DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 04-23 OF THE PROJECT MANUAL.

PHASE 2 - WESTLAKE/MERCER CLEANUP PROJECT
SEATTLE, WASHINGTON

**SOIL SAMPLING PLAN
FIGURE 2**

DESIGNED: MY	URS	SIZE: D	PLATE: 2
DRAWN: EDM		SHEET: 1 OF 1	
CHECKED: MY			
PROJECT ENGINEER: _____			
APPROVED BY: _____			
DATE: 10/08			

**QUALITY ASSURANCE PROJECT
PLAN
PHASE 2 WESTLAKE/MERCER
CLEANUP PROJECT
SEATTLE, WASHINGTON**

Prepared for

**ConocoPhillips Company
URS Corporation
January 22, 2009**

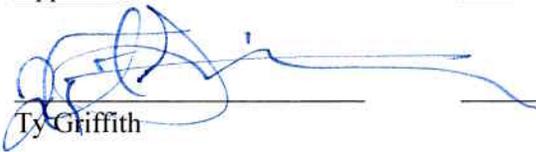
QUALITY ASSURANCE PROJECT PLAN

FOR
CONOCO-PHILLIPS COMPANY
PHASE 2 WESTLAKE/MERCER CLEANUP PROJECT
SEATTLE, WASHINGTON

Approval

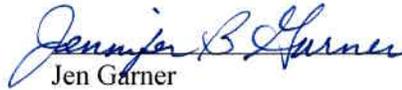
Date

Project Manager
(URS Corporation)


Ty Griffith

1/26/09

QA/QC Manager
(URS Corporation)


Jen Garner

January 26, 2009

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Table 1 – Parameters of Interest and Overall Project Data Quality Objectives - Soil

Table 2 – Soil Sample Collection, Preservation, and Holding Time Criteria

ABBREVIATIONS AND ACRONYMS LIST

AS	air sparge
bgs	below ground surface
COC	chain-of-custody
DQO	data quality objectives
Ecology	Washington State Department of Ecology
EFR	enhanced fluid recovery
EPA	United States Environmental Protection Agency
MDL	method detection limit
MS/MSD	matrix spike / matrix spike duplicate
MTCA	Model Toxics Control Act
PE	performance evaluation
QA/QC	quality assurance / quality control
QAPP	quality assurance project plan
RL	reporting limit
RPD	relative percent difference
SAP	sampling and analysis plan
SVE	soil vapor extraction
TestAmerica	TestAmerica Analytical Testing Corporation
URS	URS Corporation
WMCP	Westlake/Mercer Cleanup Project

**QUALITY ASSURANCE PROJECT PLAN
CONOCO-PHILLIPS
PHASE 2 WESTLAKE/MERCER CLEANUP PROJECT
SEATTLE, WASHINGTON**

1.0 PROJECT DESCRIPTION

This document presents the Quality Assurance Project Plan (QAPP) for Phase 2 Site Excavation/Remediation activities associated with the Westlake/Mercer Cleanup Project (WMCP) at 600 Westlake Avenue North in Seattle, Washington. Sampling activities will be performed to confirm whether petroleum hydrocarbon impacts remain in soils at the floor of the excavation and to maintain compliance with state and local regulatory agency requirements. This QAPP will serve as the basis for evaluation of data from environmental sampling conducted as part of the Phase 2 Site Cleanup. This QAPP has been prepared in accordance with the Washington Department of Ecology (Ecology) publication *Guidelines for Preparing Quality Assurance Project Plans for Environmental Studies* (Ecology 2004b). The procedures outlined in this plan govern all aspects of chemical data collection activities under the sampling and analysis plan (SAP) and work plan approved by ConocoPhillips. The purpose of the QAPP and associated SAPs and work plans is to ensure that the data are representative of the conditions in the field and that analytical data are valid and accurately reported. The procedures outlined in this QAPP may also be applied to supplemental investigations, remedial investigations, remedial actions, or other actions for which chemical data collection occurs provided this QAPP is referenced in the specific project plan (monitoring plan, SAP, or work plan).

Numerous investigative and remedial site activities have been performed on and around the ConocoPhillips station property since the 1980's, following a release of an estimated 80,000 gallons of leaded gasoline at the station property. Remedial actions conducted at the site have included product recovery, soil vapor extraction (SVE), deep and shallow air sparging, and soil excavation. Pilot tests have also been performed on the ConocoPhillips station property and surrounding properties to assess aquifer characteristics and evaluate bioremediation response. A remediation system utilizing air sparging and SVE technology operated at the ConocoPhillips station site to remediate residual hydrocarbons in soil and groundwater at the site. The aboveground portions of this treatment system will be removed prior to the Phase 2 excavation work.

ConocoPhillips performed "Phase 1" remediation activities on the WMCP site from July 2006 to April 2007. The remedial activities included soil excavation of the eastern lanes of Westlake Avenue North, installation of air sparge (AS) wells and SVE trenches in the west lanes of Westlake Avenue North, and installation of SVE and enhanced fluid recovery (EFR) wells in Terry Avenue North. Approximately 17,000 tons of soil were excavated from the east lanes of Westlake Avenue North between Valley Street and Mercer Street. The excavation extended to approximately 15 feet below ground surface (bgs). The groundwater table was observed at 10 to 12 feet bgs. However, due to the construction methods and soil conditions, very little groundwater entered the excavation. The excavated soil consisted of brown to gray silty sand

with traces of clay and organic matter. Wood debris was also present in the excavation throughout the subsurface including old trestle and pier supports.

Phase 2 remedial excavation activities are described in the Soil Sampling Plan (URS 2008) and will consist of removing petroleum hydrocarbon impacted soil exceeding Ecology's Model Toxics Control Act (MTCA) Method A soil cleanup levels. The soil sampling program will confirm whether petroleum hydrocarbon impacts exceeding MTCA Method A soil cleanup levels remain in soils at the floor of the excavation. Following excavation to a proposed depth of 15 feet bgs, soil samples within each remedial excavation area will be collected confirm concentrations are below the MTCA Method A cleanup level at the floor of the excavation. If petroleum hydrocarbon impacts in soils are present exceeding MTCA Method A cleanup levels at 15 feet bgs, the excavation will continue down incrementally as far as practicable (approximately 20 feet bgs). Samples will be collected from the excavation floor until petroleum hydrocarbon impacts to soil are below MTCA Method A soil cleanup levels or until further excavation is not practicable.

2.0 PROJECT ORGANIZATION AND RESPONSIBILITY

The project team will consist of personnel from ConocoPhillips, URS Corporation (URS) and their subcontractors and TestAmerica Analytical Testing Corporation (TestAmerica). The following paragraphs describe the major positions and responsibilities of the team along with the approach to quality assurance management. Key project personnel and regulatory personnel and their responsibilities for QA activities are described below.

2.1 PROJECT COORDINATOR

- Kipp Eckert
ConocoPhillips Contract Manager
19909 120th Ave. NE
Suite 101
Bothell, WA 98011
(425) 402-3221 (Direct Line)
(206) 890-6293 (Cellular)
email – kipp.w.eckert@contractor.conocophillips.com

The Project Coordinator will be responsible for overseeing the implementation of the cleanup project at the Westlake/Mercer project area. To the maximum extent possible, all documents should be directed through the Project Coordinator. These documents include but are not limited to reports, QAPPs, project plans, and other correspondence concerning the activities performed.

2.2 PROJECT MANAGER

- Ty Griffith
URS Corporation

1501 4th Avenue, Suite 1400
Seattle, WA 98101
(206) 438-2700
(206) 438-2134 (Direct Line)
(206) 617-5708 (Cellular)
email - ty_griffith@urscorp.com

The Project Manager is responsible for implementation of all aspects of the cleanup plan, and applicable project plans. Specific responsibilities include review and approval of revisions to SAPs, QAPPs and applicable project plans, ensuring that all technical procedures are followed, reporting of deviations to the Project Coordinator, and ensuring that the data collected will satisfy the Data Quality Objectives (DQOs) discussed in Section 3 of this document. In addition, the Project Manager will provide technical review of reports.

2.3 QA/QC MANAGER

- Jen Garner

URS Corporation
1501 4th Avenue, Suite 1400
Seattle, WA 98101
(206) 438-2700
(206) 438-2063
email – jen_garner@urscorp.com

The QA/QC Manager is responsible for developing and managing procedures described in the QAPP, interfacing with the project laboratory and data quality assessment personnel, reviewing QA/QC audit reports, coordinating audit procedures, implementing necessary corrective action procedures, reviewing and evaluating analytical laboratory results, reviewing data quality assessment reports, and reporting to the URS Project Manager.

2.4 ANALYTICAL LABORATORY PROJECT MANAGER

- Kate Haney

TestAmerica Analytical Testing Corporation
18939 120th Ave NE
Bothell, WA 98011
(425) 420-9200
(425) 420-9249
email – kate.haney@testamericainc.com

The analytical laboratory project manager is responsible for reviewing and reporting all analytical data generated during the project, responding to questions or concerns regarding the quality of the data that the project managers, QA/QC manager, or data quality assessment personnel may have, and implementing any corrective actions deemed necessary by these individuals with regards to laboratory operations.

2.5 ENVIRONMENTAL MEDIA SAMPLING PERSONNEL

- Various URS or Other Contract Personnel

The field sampling personnel are responsible for implementing the sampling and handling procedures as specified in the QAPP and/or SAP, ensuring all field procedures follow the appropriate project plan, notifying the Project Manager and QA/QC Manager of any difficulties encountered during the field program, and implementing corrective actions to the field procedures as approved by the Project Manager.

3.0 DATA QUALITY OBJECTIVES

Data Quality Objectives (DQOs) are qualitative and/or quantitative statements of the precision (a measure of the random error), bias (a measure of systematic error), representativeness, completeness, and comparability necessary for the data to serve the objectives of the remedial activities at the site. The objectives of each remedial activity are discussed in detail in the associated project plan. During plan implementation, field as well as laboratory data will be generated. The quality of the field data will be evaluated based on successful calibration of each instrument supplying the data and the stated accuracy and precision by the manufacturer. The quality of laboratory data will be evaluated based on the relative precision, bias, representativeness, completeness, and comparability of the data generated by each type of analysis. These terms are defined below:

Precision	Precision is a measure of the scatter in the data due to random error. For most environmental measurements, the major sources of random error are sampling and analytical procedures. Sampling and analytical precision is expressed as the relative percent difference (RPD).
Bias	Bias is a measure of the difference between the analytical result for a parameter and the true value due to systematic errors. Potential sources of systematic errors include sample collection, physical/chemical instability of samples, interference effects, calibration of the measurement system, and artificial contamination.
Representativeness	Representativeness of the environmental conditions at the time of sampling is achieved by selecting sampling locations, methods and times so that the data describe the site conditions that the project seeks to evaluate.
Completeness	Completeness refers to the amount of usable data produced in the project.
Comparability	Comparability refers to the ability to compare the data from the project to other data.

Project DQOs for method detection limits (MDLs) and laboratory reporting limits (RLs) are summarized in Table 1. The analytical methods and RLs provided in Table 1 were selected to achieve data that was equal to or below MTCA Method A soil screening levels. MDLs should support RLs; however, since MDLs are statistically calculated values under clean matrix conditions, data will be reported based on the RL.

The DQOs for precision and bias are assessed based on the laboratory control limits provided in Table 1. Representativeness of the data collected will be ensured by using appropriate sampling procedures at sampling locations designed to produce data meeting the objectives of the sampling plan. Representative samples will also be ensured through following proper protocols for sample handling (storage, preservation, packaging, custody, and transportation), sample documentation, and laboratory sample handling and documentation procedures.

Comparability of the data will be ensured by selecting standard USEPA and/or state analytical methodologies for sample analysis. Data will be reported from the laboratory to the URS Project Manager both electronically and in paper copy form. The laboratory-provided data will be converted by TestAmerica into a suitable database format specified by URS. The electronic and paper copy analytical reports will be checked by URS to ensure reporting accuracy. Data quality will be assessed in terms of precision, bias, representativeness, completeness and comparability using specific data quality assessment procedures outlined in Section 10. Results of these assessments, along with any data that is qualified, will be submitted to the QA/QC manager in a data review memorandum for review and, if necessary, additional assessment.

4.0 SAMPLING PROCEDURES

The soil sampling program that will be performed during Phase 2 remedial excavation activities will confirm whether petroleum hydrocarbon impacts exceeding MTCA Method A cleanup levels remain in soils at the floor of the excavation. Soil will be sampled within each remedial excavation area at the maximum proposed depth of 15 feet bgs to confirm concentrations at the floor of the excavation. However, if petroleum hydrocarbon impacts in soils are present exceeding MTCA Method A cleanup levels at 15 feet bgs, the excavation will continue down incrementally as far as practicable. Post-excavation confirmation soil samples will be collected after completion of excavation activities as compliance samples to confirm impacts have been removed.

Samples will be preserved in laboratory-provided glass jars with Teflon®-lined lids, and labeled in accordance with sampling procedures specified in the SAP. Soil samples to be analyzed for diesel- and oil-range petroleum hydrocarbons, and other analytes, will be packed into the glass jars. Soil samples to be analyzed for volatile hydrocarbon fractions (gasoline-range petroleum hydrocarbons, benzene, toluene, ethylbenzene, xylenes, etc.) will be collected and preserved in the field using EPA

Method 5035A, per Ecology requirements (Ecology 2004a). Per the Method 5035A requirements, each of these samples will be collected using a new disposable plastic syringe sampler provided by the laboratory, and placed into a glass VOA vial. For this project, 10 grams of sample will be collected using a sampler syringe and placed in a pre-weighed VOA vial containing 10 milliliters of methanol. Two unpreserved VOA vials will be filled with 5 grams of sample collected using a

sampler syringe. Confirmation samples will be submitted to the laboratory for 24-hour turnaround to determine if further excavation is necessary.

Containers, sample size, preservation, and holding times are summarized in Table 2 for soil and accumulated solids for each analytical methodology that may be used to analyze these media. Samples will be identified according to the sample designation system described in the applicable project plan on waterproof labels with indelible markers. Sample custody will be tracked with a chain-of-custody (COC) form in accordance with the procedures outlined in the applicable project plan. Samples will remain in the custody of the sample collector until transport to the laboratory, unless a secure storage area is available.

5.0 ANALYTICAL PROCEDURES

The analytical procedures that may be used in the field and by the contract laboratory are outlined in Table 1 and discussed in Sections 5.1 and 5.2 below.

5.1 FIELD ANALYTICAL PROCEDURES

Soil samples may be field screened for organic vapor emissions using a portable organic vapor monitor as indicated in the specific project plan. The portable instruments used for field measurements will be operated, maintained, and calibrated in accordance with the manufacturer's operations manual specific for the instrument.

5.2 LABORATORY ANALYTICAL PROCEDURES

The analytical methodologies, including MDLs and laboratory RLs, that will be used to analyze soil samples are listed in Table 1. These methods are derived from *SW-846, EPA Test Methods for Evaluating Solid Waste* (USEPA 2008), Ecology's document *Analytical Methods for Petroleum Hydrocarbons* (Ecology, 1997), and methods developed by TestAmerica. TestAmerica will perform all organic and inorganic analyses of soil samples collected during the remedial activity in general accordance with the appropriate specific EPA or Ecology methodology. TestAmerica in an Ecology-accredited laboratory for the analyses they will be performing. Specialized analyses not available from TestAmerica may be subcontracted to another laboratory that can meet the specific needs of the required analysis. All method-required QC will be completed by the laboratory conducting the analyses/tests and reported along with the analytical and testing results.

6.0 DATA REDUCTION, REVIEW AND REPORTING

Data reduction is the process of converting raw data to final results. Data from direct-reading field instruments will be obtained from the instrument and recorded onto a sample collection form, or other appropriate field form as described in the applicable project plan. Laboratory analytical data reduction, review and reporting will be conducted by the laboratory in accordance

with their standard operating procedures discussed in their Quality Assurance Manual and requirements of the appropriate project plan. Results will be reported to the reporting limit as defined by the QAPP. Data deliverables will include the project sample results and QC results in electronic format and standard paper report format. The data will be submitted to URS electronically and in paper form for data quality assessment and database formatting as directed by the project plan or project manager. The data assessment will consist of ensuring that the laboratory has met the QC control limits established for surrogate recovery, matrix spike/matrix spike duplicate recovery and RPD, sample duplicate RPDs, and that the samples were properly preserved and analyzed within the recommended holding times for each analysis. Once the data have been assessed and input into the database, electronic and hard copies of the data, including qualifications, if any, will be submitted to the URS Project Manager along with the data quality assessment reports. In conjunction with the data quality assessment, the database information will be spot checked with the hard copy analytical results. If transcription errors are discovered by URS, the laboratory will be notified and the discrepancy corrected.

Data will be summarized in Excel tables. Under certain circumstances, more than one result for the same analyte may be reported by the laboratory. For samples that are extracted and/or analyzed multiple times due to laboratory QC procedures or matrix specific issues, the most appropriate data to report will be evaluated individually during data assessment. When evaluating the appropriate data to report, factors such as hold time, QC parameters, and agreement between analyses will be reviewed and the rationale for the decision will be documented in the associated data review report and summarized in the project reports.

Results will be compared to MTCA Method A cleanup levels. Data assessment procedures are outlined in Section 10.

7.0 QUALITY CONTROL PROCEDURES

Quality control procedures provide the means of evaluating and controlling the precision and bias of the analytical results. Careful adherence to established procedures for sample collection, preservation, and storage will minimize errors due to sampling and sample instability.

7.1 FIELD QC PROCEDURES

The types of field QC samples that will be collected during the remedial excavation sampling efforts and their purpose in relation to the DQOs discussed in Section 3 are listed below.

7.1.1 Field Blanks

Field blanks can indicate bias in analytical results caused by artificially introduced contamination from sample containers, sampling equipment, filtration equipment, preservation reagents, transportation and storage practices, and other samples. Two kinds of field blanks may be used: trip blanks and rinsate (decontamination or equipment) blanks.

Trip blanks will accompany all volatile samples as they are transported to and from the sampling site and then to the laboratory. They will consist of 40-milliliter glass vials filled with distilled/carbon-free water provided by the laboratory. One trip blank will be included with each cooler of sample containers destined for volatiles analysis. Trip blanks will be prepared by the laboratory at the time sample containers are prepared for the site sampling.

If non-dedicated sampling equipment is used during sample collection of any media, one rinsate blank should be prepared each day sampling is conducted with non-dedicated equipment or at the frequency described in the applicable project plan. This sample will consist of deionized water provided by the laboratory poured over the non-dedicated sampling equipment after the equipment has been cleaned in accordance with the procedures specified in the applicable SAP. The rinsate water will be collected in the appropriate sample jar provided by the laboratory for the type of analysis to be conducted.

7.1.2 Field Duplicates

Field duplicates are samples that are collected at the same time and location, and are preserved, stored, and analyzed under identical conditions as the parent sample. Generally, the most significant source of random error is the sampling procedures. The sampling error cannot be measured directly, although it may be the largest source of error in the results. Evaluation of the difference between the analytical results of field duplicates can provide an estimate of the sampling error for project samples. A good estimate of the random error due to sampling can only be made if the results of the field duplicates are significantly above the RL for a particular analysis. Hence, samples selected for duplication should be those expected to produce positive results, if possible. In addition, to provide a better estimate of the standard deviation of field duplicate results, it is important to collect several pairs of duplicates. Collection of at least one duplicate per 20 samples of a specific media (i.e., groundwater, soil, surface water, etc.) collected should provide a sufficient number of duplicates. Field duplicates will not be identified to the laboratory but will be recorded on the sample collection forms or other appropriate field forms for identification after analysis has been conducted. A list of field duplicates will be provided to the data quality assessment personnel.

7.2 LABORATORY QC PROCEDURES

Laboratory QC samples are used to assess if analytical results are within quality control limits and documented. The types of QC samples the laboratory will employ depend on the particular analytical methodology that will be used to analyze the samples. Each analytical method has required QC that must meet laboratory developed acceptance limits in order for the data to be considered valid. In addition, as part of the laboratory's annual accreditation program, performance evaluation samples and MDL studies are conducted to evaluate the laboratory's capability of performing the method accurately and precisely. Specific types of QC samples and corresponding control or acceptance limits for each analyte with respect to the particular analytical methodology are presented in Table 1. Matrix spike/matrix spike duplicates shall be performed on project samples at a rate of one per 20 samples collected for each matrix and analysis. In some cases, this will require the collection of additional sample volume in the field. If so, project plans will specify the sample volume required.

The control limits provided in Table 1 were obtained from the TestAmerica laboratory during formulation of this QAPP. In general, these control limits were statistically calculated for each analytical method and matrix in accordance with SW-846 guidance based on actual sample results from a sample population which includes samples from other projects in addition to ConocoPhillips WMCP. In some cases, the control limits are defined by the analytical method. The control limits therefore represent the normal laboratory variability associated with analysis of samples from many sites and are not specific to ConocoPhillips WMCP samples. Matrix spike, laboratory control sample, and surrogate recoveries associated with analyses of ConocoPhillips WMCP samples are reviewed by the laboratory to assess whether the recoveries indicate an out-of-control situation and to determine if corrective action is necessary. The laboratory will document the findings of their QC review and the corrective actions performed in the case narrative for the analytical reports.

8.0 PERFORMANCE AND SYSTEM AUDITS

Two types of audits may be conducted to determine whether procedures outlined in the project plans and laboratory QA program are being followed, or to detect problems so that corrective action can be initiated. The two different types of audits are described below.

8.1 PERFORMANCE AUDITS

In a performance audit, performance evaluation (PE) samples are submitted to the laboratory and analyzed for the purpose of evaluating the performance of the measurement or analytical procedures used by the laboratory. The PE sample consists of some type of environmental matrix (e.g., soil, water) which contains a known amount of a particular analyte(s). The laboratory analyzes the sample using routine procedures and then reports their results. TestAmerica is an Ecology-accredited laboratory and routinely participates in performance audits of their routine procedures. Results of these audits are available from the laboratory. Review of the audit results that are part of Ecology's accreditation program may be conducted if there are questions concerning the capability of the laboratory in performing any of the series of analytical measurements of this interim action.

8.2 SYSTEM AUDITS

System audits are conducted in order to determine if the requirements described in the applicable project plan are being properly carried out. A system audit may cover the field and laboratory portions of the project. The project manager, upon recommendation by the QA/QC manager, may request that a system audit of the field or laboratory operations be performed. Results of system audits will be reported to the project manager and project coordinator. The results will be summarized in a technical memorandum that describes problems encountered and corrective measures taken to correct the problem. Any corrective actions required should be implemented as discussed in Section 11.

9.0 PREVENTATIVE MAINTENANCE

Preventative maintenance procedures and schedule for field sampling equipment and measurement equipment will be conducted in accordance with the manufacturer's operations manual for each piece of equipment. Any critical spare parts or sampling equipment disposables such as small tools, disposable bailers, sample containers and other small items should be inventoried by field personnel in order to prevent and/or minimize equipment downtime. The laboratory will be responsible for preventative maintenance of its measurement equipment.

10.0 DATA ASSESSMENT PROCEDURES

When the results of the measurements have been obtained, the URS Project Manager and QA/QC manager will determine whether the project DQOs have been achieved. Whether the overall project DQOs have been met will be assessed by review of the analytical data quality assessment reports generated by the data quality assessment personnel. The responsibility of these personnel will be to ensure that the analytical DQOs have been met through review of the QC results associated with the project analytical data. Data quality assessment reports will discuss the completeness of the data and will document the reasons for any data qualifiers that are assigned. Specific procedures to be used in the data quality assessment of project data precision, bias, and completion are discussed in this section.

In order to ensure that data is of a known and acceptable quality, all analytical data generated for the remedial excavation activity will undergo a data quality review. This data review is an assessment of data precision and accuracy using quality control summary sheet results provided by the laboratory for each data package. If outliers occur during calibration or calibration verification or other analytical problems are identified, the laboratory will contact the URS QA/QC manager to discuss the problems/outliers. Professional judgment will be used to determine necessary actions, if any. The problems/outliers will be identified and the remedial measures implemented will be noted in the case narrative from the laboratory. Data will be evaluated and data qualifiers assigned based on the method requirements and guidance for qualification outlined in the USEPA documents *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, October 1999 and *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review*, October 2004. If several problems or deficiencies are encountered or specific data appear to be problematic based on the initial data review, more extensive data review will be implemented such as review of raw data. The data review consists of the following elements:

- Verification that sample numbers and analyses match the chain-of-custody request.
- Verification that sample preservation and holding times are met.
- Verification that field and laboratory blanks were performed at the proper frequency and that no analytes were present in the blanks.

- Verification that field and laboratory duplicates, matrix spikes, and laboratory control samples were run at the proper frequency and that control limits were met.
- Verification that surrogate compound analyses have been performed and that results met the QC criteria.
- Verification that established reporting limits have been achieved.

Data quality assessment will also include a review of the precision, bias, and completeness of analytical data. Precision will be assessed based on the RPD of matrix spike / matrix spike duplicate (MS/MSD) or laboratory duplicate pairs. Calculated RPDs will be compared to the control limits and if the RPD is within these limits, then the precision of the analysis will be assumed to meet the DQOs of the project. Bias will be reviewed by comparing the percent recoveries of surrogates, matrix spikes, and laboratory control samples to the appropriate control limits. Table 1 summarizes the control limits for addressing precision and bias for each analysis. The control limits provided in Table 1 were provided by the laboratory during development of this QAPP and represent the output of statistical evaluation of results from a set of samples which includes samples from both ConocoPhillips WMCP and other projects.

Completeness will be expressed as the percentage of the total tests (including sample and field QC results) conducted that are valid and considered usable for project objectives. Analytical results qualified as estimated based on data quality assessment are considered usable but the reason for qualification should be considered when using the data for site assessment or remedial evaluation. Rejected data are not usable.

11.0 CORRECTIVE ACTION

Evaluation of field and laboratory QC data and/or audits conducted for field operations and/or laboratory operations may indicate the need for a corrective action. Problems with analytical QC data will be addressed by the laboratory QC officer. Problems arising during field operations, however, will be addressed by the QA/QC manager through communication of the identified problem and a potential corrective action to the URS Project Manager. The Project Manager will then relay this information to the field personnel for implementation. The field personnel will then report back to the Project Manager upon successful implementation of the corrective action. ConocoPhillips will be notified of variances to the QAPP or applicable project plans through status reports, data review reports, quarterly reports, or other written correspondence as deemed appropriate.

12.0 QUALITY ASSURANCE REPORTS

A data assessment report will be prepared for the analytical data generated for each sampling event. The data assessment reports will indicate if DQOs were met and identify general QA problems, assigned data qualifiers and reasons for the qualifier, impact to data quality, if any, and the recommended and/or implemented corrective actions. Data assessment reports will be

submitted to the QA/QC manger and the URS Project Manager for review prior to the final reporting of analytical data.

13.0 REFERENCES

- URS Corporation, 2008, Draft Soil Sampling Plan, Phase 2 Westlake/Mercer Cleanup Project Seattle, Washington. December 4, 2008.
- U.S. Environmental Protection Agency (USEPA), 1999, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008, October 1999.
- U.S. Environmental Protection Agency (USEPA), 2004, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540-R-04-004, October 2004.
- U.S. Environmental Protection Agency (USEPA), 2008, Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), 3rd Ed., September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995, Final Update IIIB, April 1998, Draft Final Update IV, June 2005, Final Update IV, January 2008.
- Washington State Department of Ecology (Ecology), 1997, Analytical Methods for Petroleum Hydrocarbons, Publication No. ECY 97-602, June 1997.
- Washington Department of Ecology (Ecology), 2001b, Cleanup Levels and Risk Calculations Under the Model Toxics Control Act Cleanup Regulation (CLARC Version 3.1), Publication No. 94-145, Updated November 2001. Revised MTCA Method A and B values from Ecology website CLARC tables downloaded July 2008 (<https://fortress.wa.gov/ecy/clarc/Reporting/CLARCReporting.aspx>)
- Washington Department of Ecology (Ecology), 2004a, Collecting and Preparing Soil Samples for VOC Analysis, Implementation Memorandum #5, Publication No. 04-09-087, June 2004.
- Washington Department of Ecology (Ecology), 2004b, Guidelines for Preparing Quality Assurance Project Plans for Environmental Studies, Publication No. 04-03-030, July 2004.

TABLE 1
Parameters of Interest and Overall Project Data Quality Objectives- Soil
Quality Assurance Project Plan
ConocoPhillips Phase 2 Westlake/Mercer Cleanup Project
Seattle, Washington

Parameter	Method	MTCA 2008 ^A	Laboratory Reporting and Control Limit Criteria							
		MTCA Method A Unrestricted Land Use Cleanup Levels	MDL	RL	Surrogate	LCS/LCSD	LCS/LCSD RPD	MS/MSD	MS/MSD RPD	Duplicate RPD
		Soil	Soil	Soil	(%)	(%)	(%)	(%)	(%)	(%)
<u>Volatile Organic Compounds</u> ^B	<u>USEPA 8260B</u>	<u>ug/kg</u>	<u>ug/kg</u>	<u>ug/kg</u>						
Benzene		30	10	20	--	75-125	20	75-131	25	--
Ethylbenzene		6,000	12	100	--	75-125	20	60-140	25	--
m,p-Xylene		9,000	21	200	--	75-125	20	60-140	25	--
o-Xylene		9,000	17	100	--	75-125	20	60-140	25	--
Toluene		7,000	10	100	--	75-125	20	75-125	25	--
Methyl tert-butyl ether (MTBE)		100	10	50	--	75-125	20	71-130	25	--
Naphthalene		5,000	1100	2000	--	60-140	20	60-140	25	--
	<i>surrogate: 1,2-DCA-d4</i>	--	--	--	75-125	--	--	--	--	--
	<i>surrogate: Toluene-d8</i>	--	--	--	75-125	--	--	--	--	--
	<i>surrogate: 4-BFB</i>	--	--	--	75-125	--	--	--	--	--
<u>Total Petroleum Hydrocarbons</u>	<u>Ecology June 1997</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>						
Gasoline Range	NWTPH-Gx	30 / 100 ^C	1.40	5.00	--	80-120	20	75-130	25	40
	<i>surrogate: 4-BFB</i>	--	--	--	80-140	--	--	--	--	--
<u>Total Petroleum Hydrocarbons</u>	<u>Ecology June 1997</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>						
Diesel Range	NWTPH-Dx	2,000	2.00	10.0	--	75-125	40	40-145	40	40
Oil Range	NWTPH-Dx, Extended	2,000	4.00	25.0	--	63-125	40	26-150	40	40
	<i>surrogate: 2-FBP</i>	--	--	--	60-135	--	--	--	--	--
	<i>surrogate: Octacosane</i>	--	--	--	75-125	--	--	--	--	--
<u>Metals (Total)</u>	<u>USEPA 6000/7000 Series</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>						
Lead	6010B	250	0.0700	1.00	--	80-120	20	51-144	40	40

Notes:

A- Model Toxics Control Act Cleanup Regulation, WAC 173-340. 2008 MTCA Method A and B values are from Ecology website CLARC tables downloaded

July 2008 (<https://fortress.wa.gov/ecy/clarc/reporting/CLARCReporting.aspx>), when available.

B - MDLs and RLs will vary based on sample weight. Limits shown are for 5 gram sample weight (soil).

C - In soil, the cleanup level is 100 mg/kg if benzene is not present, and the total of ethylbenzene, toluene, and xylenes is less than 1% of the gasoline mixture.

The cleanup level for all other gasoline mixtures is 30 mg/kg.

MDL - Method Detection Limit

LCS/LCSD - Laboratory control sampling/laboratory control sample duplicate

-- - Not applicable or Not available

MS/MSD - Matrix spike/matrix spike duplicate

NE - Not established

RPD - Relative percent difference

RL - Reporting Limit

TABLE 2
Soil Sample Collection, Preservation, And Holding Time Criteria
Quality Assurance Project Plan
ConocoPhillips Phase 2 Westlake/Mercer Cleanup Project
Seattle, Washington

Parameter	Method Reference	Method	Minimum Sample Amount	Container Type	Preservation	Extraction Holding Time	Analysis Holding Time
Volatile Organic Compounds (VOCs) and Gasoline-Range Total Petroleum Hydrocarbons	SW-846 and Ecology	8260B Mod. and NWTPH-Gx	40 g	2 40-mL VOA vials without preservative (from Easy-Draw Syringe) 1 40-mL VOA vial with MeOH (from Easy-Draw Syringe) 1 2-oz glass jar with Teflon-lined lid (minimal headspace)	Cool to 4°C 1 VOA with 10mL MeOH [5g sample in each unpreserved VOA vial, 10g sample in MeOH preserved VOA vial] No headspace (2-oz glass jar)	NA	14 days
Diesel- and Heavy Oil-Range Total Petroleum Hydrocarbons	Ecology	NWTPH-Dx	250 g	8 oz-glass jar with Teflon-lined lid	Cool to 4°C	14 days	40 days *
Metals (Lead only)	SW-846	EPA 6010B	100 g	8 oz-glass jar with Teflon-lined lid	Cool to 4°C	NA	6 months

* - Days from extraction date

Note: Other allowable containers for soil samples include stainless steel rings with teflon-lined plastic caps for analyses other than volatile parameters.

**Summary Data Quality Review
Westlake-Mercer, Phase 2
Soil, Water, Oil Samples**

marked for samples associated with SDG BSB0073 and the NWTPH-Gx samples were submitted in the incorrect bottle. After confirmation with URS, TA analyzed the sample for VOCs, NWTPH-Gx and -Dx, PCBs, RCRA Metals, and pH. Data were not qualified based on the incorrect bottle for Gx samples.

Several analyses were not marked for samples associated with SDGs BSD0125 and BSD0222. After confirmation with URS, TA analyzed the samples for VOCs, NWTPH-Gx and -Dx, TPH- HCID, total lead, and/or TCLP lead.

Sample COP-T2-W (SDG BSB0014) was submitted to the laboratory in the incorrect sample container for PCBs. Per URS PM, the PCB analysis was suspended until the sample was recollected. The sample was recollected in the correct container for PCBs and TA put the PCBs analysis for sample COP-T2-W in SDG BSB0021. Per URS, the VOC analyses for samples E02-020409 and E03-020409 (SDG BSB0032) were canceled.

The laboratory noted that samples Area2-A7-8, Area2-A8-14 and Area2-A9-14 did not have sample times on containers and the container labels for samples Area1-K8-14 and Area1-K7-14 were listed as Area2, not Area1. The laboratory noted that the sampled time on the container label for samples Area20C2-14 and Area1-14-9 did not match the COC. Per URS, the laboratory logged samples in per the COC.

The laboratory noted that the sampled time on the container label for samples Amazon Lot 34-16 and samples associated with SDG BSE0081 did not match the COC. After confirmation from URS, the laboratory used the sample time from the container labels.

The laboratory misidentified sample Area1-G1-4 as Area-G1-4 (SDG BSE0210). The correct sample identification (Area1-G1-4) is used within this report and associated tables.

Data validation is based on method performance criteria and QC criteria documented in *Phase 2, Westlake/Mercer Cleanup Project, Seattle, Washington, Soil Sampling Plan*, dated February 2009 and using laboratory quality control measures. Hold times, field / method / trip blanks, surrogate recoveries, matrix spike/matrix spike duplicate recoveries, laboratory duplicate results, blank spike recoveries (laboratory control samples) and reporting limits were reviewed to assess compliance with applicable methods. If data qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA documents *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, October 1999 and *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganics Data Review*, October 2004. A summary of qualifiers assigned to results in these SDGs is included in Table 1. Qualifiers that may be assigned to results include:

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. For inorganic analyses, the analyte may be qualified J+ or J- to indicate bias high or low, respectively.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- DNR Do Not Report. Another result is available that is more reliable.

**Summary Data Quality Review
Westlake-Mercer, Phase 2
Soil, Water, Oil Samples**

Organic Analysis

Samples were analyzed for VOCs, TPH (gasoline, diesel and residual range), TPH-HCID, PAHs, and/or PCBs by the methods identified in the introduction of this report.

1. Holding Times – Acceptable
2. Blanks – Acceptable except as noted below:

VOCs by 8260B – Tetrachloroethene (PCE, 0.430 ug/L) was detected in the method blank analyzed on February 5, 2009. Ethylbenzene (0.0120 mg/kg), methyl-tert-butylether (MTBE, 0.0130 mg/kg), toluene (0.0100 mg/kg), m,p-xylene (0.0290) and total xylenes (0.0400 mg/kg) were detected in the method blank analyzed on April 22, 2009. Benzene (0.0110 mg/kg), ethylbenzene (0.0140 mg/kg), toluene (0.0140 mg/kg), and m,p-xylene (0.0220) were detected in the method blank analyzed on April 30, 2009. Per CLP guidelines, results reported at concentrations less than five times (5x) the method blank concentration are qualified as not detected and flagged with a ‘U’. When the associated sample results are reported between the method detection limit (MDL) and the reporting limit, and are less than 5x the method blank concentration, the results are qualified as not detected at the reporting limit. Results reported at concentrations greater than 5x the concentration found in the method blank do not require qualification. The sample results for PCE, benzene, ethylbenzene, MTBE, toluene, m,p-xylene and total xylenes were reported at concentrations greater than 5x the method blank concentration, were not reported in samples associated with the batch, or were reported as not detected and do not require qualification based on the associated method blank results.

Gasoline-range by NWTPH-Gx – Gasoline-range TPH (1.99 mg/kg) was detected in the method blank analyzed on April 13, 2009. The associated sample results for gasoline-range TPH were reported at concentrations greater than 5x the method blank concentration or were reported as not detected and do not require qualification based on the method blank result.

TPH by NWTPH-Dx – Bunker C (253 mg/kg), lube oil (164 mg/kg) and diesel-range (15.4 mg/kg) TPH were detected in the method blank analyzed on February 11, 2009. The associated sample results for Bunker C, lube oil and diesel-range TPH were reported at concentrations greater than 5x the method blank concentration and do not require qualification based on the method blank results.

3. Surrogates – Acceptable except as noted below:

VOCs by Method 8260B – The percent recoveries for surrogates d4-1,2-dichloroethane (1,2-DCA-d4), toluene-d8, and/or 4-BFB were outside the laboratory control limits in several samples as noted below:

Sample ID	1,2-DCA-d4 CL: 70-140%	Toluene-d8 CL: 70-130%	4-BFB CL: 70-130%	Action
Area2-G8-14	ok	ok	138%	Detections = J, ND = No flag
Area2-G9-14	ok	ok	135%	Detections = J, ND = No flag
Area2-G6-14	ok	ok	159%	Detections = J, ND = No flag
Area2-G5-14	150%	ok	222%	Detections = J, ND = No flag
Area2-F9-11.5	143%	ok	ok	All VOCs ND = no flag
Area2-F8-10.5	146%	ok	ok	All VOCs ND = no flag
Area2-E7-11.5	144%	ok	ok	All VOCs ND = no flag
Area1-B13-14	144%	ok	ok	All VOCs ND = no flag
Area1-C13-14	167%	ok	ok	Detections = J, ND = No flag

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Sample ID (continued)	1,2-DCA-d4 CL: 70-140%	Toluene-d8 CL: 70-130%	4-BFB CL: 70-130%	Action
Area1-C12-14	143%	ok	ok	All VOCs ND = no flag
Area2-B7-14	ok	136%	134%	All VOCs ND = no flag
Area2-B8-14	ok	139%	ok	All VOCs ND = no flag
Area2-B9-14	ok	133%	ok	Detections = J, ND = No flag
Area2-A9-14	ok	136%	138%	All VOCs ND = no flag
Area2-D5-11.5	ok	135%	ok	All VOCs ND = no flag
Area2-D6-11.5	ok	137%	133%	All VOCs ND = no flag
Area2-D8-11.5	ok	135%	ok	All VOCs ND = no flag
Area1-K8-14	ok	136%	133%	All VOCs ND = no flag
Area1-J12-14	ok	154%	156%	All VOCs ND = no flag
Area1-J11-14	ok	151%	149%	All VOCs ND = no flag
Area2-B7-11.5	ok	148%	137%	All VOCs ND = no flag
Area2-B6-12.5	ok	135%	133%	All VOCs ND = no flag
Area2-B6-9	ok	137%	132%	All VOCs ND = no flag
Area1-H12-14	ok	ok	132%	All VOCs ND = no flag
Area1-H13-14	152%	134%	147%	All VOCs ND = no flag
Area1-H14-14	ok	ok	131%	All VOCs ND = no flag
Area1-I13-14	ok	137%	132%	All VOCs ND = no flag
Area1-I14-14	ok	ok	136%	All VOCs ND = no flag
Area1-I15-14	ok	ok	137%	All VOCs ND = no flag
Area1-F12-14	ok	ok	133%	All VOCs ND = no flag
Area1-F13-14	ok	ok	135%	All VOCs ND = no flag
Area1-F14-14	ok	136%	136%	All VOCs ND = no flag
Area1-G12-14	ok	142%	134%	All VOCs ND = no flag
Area1-G13-14	ok	ok	131%	All VOCs ND = no flag
Area1-G14-14	ok	ok	133%	All VOCs ND = no flag
Area1-I10-9	ok	140%	138%	All VOCs ND = no flag
Area1-E10-14	ok	132%	135%	All VOCs ND = no flag
Area1-E11-14	156%	ok	156%	All VOCs ND = no flag
Area1-E13-14	ok	133%	136%	All VOCs ND = no flag
Area1-D11-14	179%	146%	147%	Detections = J, ND = No flag
Area1-D12-14	ok	ok	145%	Detections = J, ND = No flag
Area1-D13-14	ok	135%	140%	All VOCs ND = no flag
Area1-D14-14	ok	132%	136%	All VOCs ND = no flag
Area1-E12-14	ok	ok	133%	Detections = J, ND = No flag
DUP-4	158%	138%	152%	Detections = J, ND = No flag
Area1-B13-10	ok	ok	134%	Detections = J, ND = No flag
Area1-B14-9	ok	137%	149%	All VOCs ND = no flag
Area1-H12-9	ok	ok	136%	All VOCs ND = no flag
Area1-F12-9	ok	134%	135%	All VOCs ND = no flag
Area1-E11-9	ok	ok	157%	Detections = J, ND = No flag
Area1-B14-7	ok	ok	137%	Detections = J, ND = No flag
Area1-C13-9	ok	ok	140%	Detections = J, ND = No flag
Area1-C12-9	ok	ok	135%	All VOCs ND = no flag

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Sample ID (continued)	1,2-DCA-d4 CL: 70-140%	Toluene-d8 CL: 70-130%	4-BFB CL: 70-130%	Action
Area1-D8-14	ok	148%	149%	All VOCs ND = no flag
Area1-D9-14	145%	ok	ok	All VOCs ND = no flag
Area1-G8-14	185%	161%	142%	All VOCs ND = no flag
Area1-G9-14	184%	146%	164%	All VOCs ND = no flag
Area1-F13-9	ok	137%	137%	All VOCs ND = no flag
Area1-D12-9	ok	131%	ok	All VOCs ND = no flag
Area1-E12-9	ok	ok	140%	Detections = J, ND = No flag
Area1-E11-7	ok	ok	134%	All VOCs ND = no flag
Area1-D5-14	ok	133%	137%	Detections = J, ND = No flag
Area1-D11-12	155%	160%	165%	All VOCs ND = no flag
DUP-12	ok	134%	141%	Detections = J, ND = No flag
DUP-12 RE	ok	ok	137%	All VOCs ND = no flag
Area1-K2-14	ok	ok	135%	All VOCs ND = no flag
Area1-E1-9	ok	ok	137%	All VOCs ND = no flag
Area1-F1-9	ok	ok	138%	All VOCs ND = no flag
Area1-G1-14	ok	ok	135%	All VOCs ND = no flag
Area1-G1-9	ok	ok	137%	All VOCs ND = no flag
DUP-14 RE	ok	ok	148%	All VOCs ND = no flag
Area2-F3-14	ok	ok	161%	All VOCs ND = no flag
DUP-17	167%	ok	ok	All VOCs ND = no flag
Area2-F1-11.5	ok	135%	ok	All VOCs ND = no flag
Area2-E1-12	ok	134%	ok	All VOCs ND = no flag
Area2-E4-14	ok	185%	544%	All VOCs ND = no flag
Area2-F1-11.5	126%	ok	ok	Detections = J, ND = No flag
Area2-E1-14	129%	ok	ok	Detections = J, ND = No flag
Area2-E4-14	126%	ok	ok	Detections = J, ND = No flag
Area2-B2-14	ok	132%	222%	All VOCs ND = no flag
DUP-19	160%	141%	514%	All VOCs ND = no flag
Area2-F4-10.5	142%	131%	ok	All VOCs ND = no flag
Area2-F5-14	147%	ok	135%	Detections = J, ND = No flag
Area2-E6-14	145%	ok	ok	Detections = J, ND = No flag
DUP-2	141%	ok	ok	Detections = J, ND = No flag
Area1-K10-14	ok	152%	155%	All VOCs ND = no flag
Area1-K9-11.5	ok	134%	134%	All VOCs ND = no flag
Area1-K6-10.5	ok	142%	136%	All VOCs ND = no flag
Area1-I10-14	144%	ok	ok	All VOCs ND = no flag
Area1-H8-14	229%	143%	134%	All VOCs ND = no flag
Area1-H11-14	169%	138%	ok	All VOCs ND = no flag
DUP-3	148%	ok	ok	Detections = J, ND = No flag
I-050509	123%	ok	ok	Detections = J, ND = No flag
M-050509	122%	ok	ok	Detections = J, ND = No flag
E01-050509	124%	ok	ok	Detections = J, ND = No flag

CL: Control Limit ok: Result acceptable RE: Reanalysis ND: Not detected
1,2-DCA-d4: 1,2-Dichloroethane-d4 4-BFB: 4-Bromofluorobenzene

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Gasoline-range TPH by NWTPH-Gx – The percent recoveries for 4-BFB were outside the laboratory control limits in several samples as noted below:

Sample ID	4-BFB (FID)	4-BFB (FID) Control limit	Action
Area2-H9-14	164%	80-140%	J
Area2-H5-14	170%	80-140%	J
Area2-J8-14	148%	80-140%	J
Area2-J7-14	174%	80-140%	J
Area2-I10-14	145%	80-140%	J
Area2-G10-14	153%	80-140%	J
Area2-I9-14	155%	80-140%	J
Area2-H6-14	158%	80-140%	J
Area2-H7-14	149%	80-140%	J
Area2-H8-14	161%	80-140%	J
Area2-G7-14	147%	80-140%	J
Area2-G8-14	154%	80-140%	J
Area2-G9-14	141%	80-140%	J
Area2-G6-14	226%	80-140%	J
Area2-G5-14	143%	80-140%	J
Area2-F8-14	191%	80-140%	J
Area2-D6-14	167%	80-140%	J
Area2-D7-14	166%	80-140%	J
Area2-D8-14	156%	80-140%	Sample ND = no flag
Area2-D9-14	147%	80-140%	Sample ND = no flag
Area2-F9-11.5	146%	80-140%	Sample ND = no flag
Area2-F8-10.5	143%	80-140%	Sample ND = no flag
Area2-E9-11.5	142%	80-140%	Sample ND = no flag
Area2-E8-11.5	150%	80-140%	Sample ND = no flag
Area2-F6-12	152%	80-140%	Sample ND = no flag
Area2-E5-11.5	151%	80-140%	Sample ND = no flag
Area2-E6-12	153%	80-140%	Sample ND = no flag
Area2-E7-11.5	155%	80-140%	Sample ND = no flag
Area1-B12-14	157%	80-140%	Sample ND = no flag
Area1-B13-14	154%	80-140%	J
Area1-B14-14	155%	80-140%	J
Area1-C13-14	176%	80-140%	J
Area1-C12-14	155%	80-140%	Sample ND = no flag
Area1-G10-14	167%	80-140%	Sample ND = no flag
Area1-F10-14	164%	80-140%	J
Area1-H10-14	184%	80-140%	J
Area2-C9-14	195%	80-140%	J
Area2-C8-14	174%	80-140%	Sample ND = no flag
Area2-C7-14	154%	80-140%	Sample ND = no flag
Area2-C6-14	155%	80-140%	J
Area2-C5-14	153%	80-140%	J
Area2-B6-14	193%	80-140%	J
Area2-B7-14	194%	80-140%	J
Area2-B8-14	243%	80-140%	J

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Sample ID (continued)	4-BFB (FID)	4-BFB (FID) Control limit	Action
Area2-B9-14	222%	80-140%	J
Area2-A6-14	161%	80-140%	Sample ND = no flag
Area2-A7-14	151%	80-140%	Sample ND = no flag
Area2-A8-14	153%	80-140%	Sample ND = no flag
Area2-A9-14	213%	80-140%	Sample ND = no flag
Area2-D5-11.5	154%	80-140%	Sample ND = no flag
Area2-D6-11.5	206%	80-140%	Sample ND = no flag
Area2-D7-11.5	212%	80-140%	Sample ND = no flag
Area2-D8-11.5	210%	80-140%	Sample ND = no flag
Area2-D9-11.5	271%	80-140%	Sample ND = no flag
Area1-K9-14	160%	80-140%	J
Area1-K8-14	216%	80-140%	Sample ND = no flag
Area1-K7-14	150%	80-140%	Sample ND = no flag
Area1-A12-14	151%	80-140%	Sample ND = no flag
Area1-J15-14	159%	80-140%	J
Area1-J14-14	160%	80-140%	J
Area1-J12-14	176%	80-140%	J
Area1-J13-14	165%	80-140%	Sample ND = no flag
Area1-J11-14	152%	80-140%	Sample ND = no flag
Area2-C6-12	155%	80-140%	Sample ND = no flag
Area2-C9-12	162%	80-140%	Sample ND = no flag
Area2-B9-12	198%	80-140%	Sample ND = no flag
Area2-B8-11.5	144%	80-140%	Sample ND = no flag
Area2-B7-11.5	189%	80-140%	Sample ND = no flag
Area2-B6-12.5	150%	80-140%	J
Area1-J13-14 RE	208%	80-140%	Result not reported from this analysis = no flag
Area1-J11-14 RE	211%	80-140%	Result not reported from this analysis = no flag
Area2-C6-12 RE	200%	80-140%	Result not reported from this analysis = no flag
Area2-C9-12 RE	214%	80-140%	Result not reported from this analysis = no flag
Area2-B8-11.5 RE	209%	80-140%	Result not reported from this analysis = no flag
Area2-A6-11	145%	75-140%	J
Area1-K9-11.5	149%	75-140%	Sample ND = no flag
Area1-K8-11.5	145%	75-140%	Sample ND = no flag
Area1-K6-10.5	154%	75-140%	Sample ND = no flag
Area1-J7-14	225%	75-140%	Sample ND = no flag
Area1-J8-14	159%	75-140%	Sample ND = no flag
Area1-J9-14	171%	75-140%	J
Area1-I9-14	148%	75-140%	Sample ND = no flag
Area1-I10-14	161%	75-140%	J
Area1-H8-14	160%	75-140%	J
Area1-H11-14	151%	75-140%	J
DUP-3	147%	75-140%	J
Area1-K10-14 RE	252%	75-140%	Result not reported from this analysis = no flag
Area1-K9-11.5 RE	222%	75-140%	Result not reported from this analysis = no flag
Area1-K8-11.5 RE	239%	75-140%	Result not reported from this analysis = no flag
Area1-K6-10.5 RE	216%	75-140%	Result not reported from this analysis = no flag

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Sample ID (continued)	4-BFB (FID)	4-BFB (FID) Control limit	Action
Area1-J8-14 RE	227%	75-140%	Result not reported from this analysis = no flag
Area1-I9-14 RE	214%	75-140%	Result not reported from this analysis = no flag
Area1-I11-14	158%	75-140%	J
Area2-D10-14	181%	75-140%	J
Area2-C10-14	151%	75-140%	Sample ND = no flag
Area2-B10-14	167%	75-140%	J
Area2-A10-14	141%	75-140%	J
Area2-B6-9	183%	75-140%	Sample ND = no flag
Area2-B9-9	149%	75-140%	Sample ND = no flag
Area2-C10-14 RE	207%	75-140%	Result not reported from this analysis = no flag
Area2-B9-9 RE	205%	75-140%	Result not reported from this analysis = no flag
Area1-H12-14	151%	75-140%	J
Area1-H13-14	159%	75-140%	J
Area1-H14-14	182%	75-140%	J
Area1-H15-14	152%	75-140%	J
Area1-I13-14	173%	75-140%	J
Area1-I14-14	149%	75-140%	J
Area1-I15-14	154%	75-140%	J
Area1-F11-14	148%	75-140%	J
Area1-F12-14	184%	75-140%	J
Area1-F13-14	177%	75-140%	J
Area1-F14-14	148%	75-140%	J
Area1-G12-14	168%	75-140%	J
Area1-G13-14	154%	75-140%	J
Area1-G14-14	148%	75-140%	J
Area1-J8-9	182%	75-140%	Sample ND = no flag
Area1-J9-9	220%	75-140%	Sample ND = no flag
Area1-H12-14 RE	207%	75-140%	Result not reported from this analysis = no flag
Area1-H14-14 RE	208%	75-140%	Result not reported from this analysis = no flag
Area1-H15-14 RE	212%	75-140%	Result not reported from this analysis = no flag
Area1-I13-14 RE	213%	75-140%	Result not reported from this analysis = no flag
Area1-F12-14 RE	210%	75-140%	Result not reported from this analysis = no flag
Area1-F13-14 RE	202%	75-140%	Result not reported from this analysis = no flag
Area1-F14-14 RE	211%	75-140%	Result not reported from this analysis = no flag
Area1-G14-14 RE	213%	75-140%	Result not reported from this analysis = no flag
Area1-J8-9 RE	216%	75-140%	Result not reported from this analysis = no flag
Area1-J9-9 RE	213%	75-140%	Result not reported from this analysis = no flag
Area1-I10-9	187%	75-140%	J
Area1-E10-14	151%	75-140%	J
Area1-E11-14	150%	75-140%	J
Area1-E13-14	142%	75-140%	Sample ND = no flag
Area1-E14-14	143%	75-140%	Sample ND = no flag
Area1-D11-14	159%	75-140%	J
Area1-D12-14	152%	75-140%	J
Area1-D13-14	143%	75-140%	Sample ND = no flag
Area1-E12-14	150%	75-140%	J

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Sample ID (continued)	4-BFB (FID)	4-BFB (FID) Control limit	Action
DUP-4	153%	75-140%	J
Area1-B13-10	152%	75-140%	J
Area1-B14-9	152%	75-140%	J
Area1-I10-9 RE	212%	75-140%	Result not reported from this analysis = no flag
Area1-E10-14 RE	213%	75-140%	Result not reported from this analysis = no flag
Area1-E13-14 RE	211%	75-140%	Result not reported from this analysis = no flag
Area1-E14-14 RE	210%	75-140%	Result not reported from this analysis = no flag
Area1-D13-14 RE	203%	75-140%	Result not reported from this analysis = no flag
Area1-D14-14 RE	198%	75-140%	Result not reported from this analysis = no flag
Area1-B13-10 RE	220%	75-140%	Result not reported from this analysis = no flag
Area1-H12-9	169%	75-140%	Sample ND = no flag
Area1-F12-9	147%	75-140%	J
Area1-H12-9 RE	214%	75-140%	Result not reported from this analysis = no flag
Area1-F12-9 RE	208%	75-140%	Result not reported from this analysis = no flag
Area1-B14-7	149%	75-140%	J
Area1-C13-9	153%	75-140%	Sample ND = no flag
Area1-C12-9	153%	75-140%	Sample ND = no flag
Area1-D7-14	143%	75-140%	J
Area1-D8-14	161%	75-140%	J
Area1-C12-9 RE	205%	75-140%	Result not reported from this analysis = no flag
Area1-G8-14	170%	75-140%	J
Area1-G9-14	200%	75-140%	J
Area1-F13-9	145%	80-140%	Sample ND = no flag
Area1-E11-7	142%	80-140%	Sample ND = no flag
Area1-E11-7 RE	348%	80-140%	Result not reported from this analysis = no flag
Area1-C5-14	222%	75-140%	J
Area1-D5-14	153%	75-140%	J
Area1-E5-14	141%	75-140%	Sample ND = no flag
DUP-10	146%	75-140%	J
Area1-H5-14	182%	75-140%	J
DUP-11	176%	75-140%	J
Area1-B3-14	272%	75-140%	J
Area1-G2-14	157%	75-140%	J
Area1-G3-14	156%	75-140%	J
DUP-12	151%	75-140%	J
Area1-H2-14	178%	75-140%	J
Area1-I2-14	190%	75-140%	J
Area1-H2-14 RE	191%	75-140%	Result not reported from this analysis = no flag
Area1-I2-14 RE	183%	75-140%	Result not reported from this analysis = no flag
Area1-J2-14	149%	75-140%	J
DUP-13	145%	75-140%	J
Area1-C1-9	302%	75-140%	J
Area1-D1-14	293%	75-140%	J
Area1-E1-14	157%	75-140%	J
Area1-E1-9	153%	75-140%	J
Area1-G1-9	143%	75-140%	J

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Sample ID (continued)	4-BFB (FID)	4-BFB (FID) Control limit	Action
Dup-14	171%	75-140%	J
Area1-E10-9	152%	75-140%	J
Area1-J2-9 RE	202%	75-140%	Result not reported from this analysis = no flag
Area1-J2-7 RE	182%	75-140%	Result not reported from this analysis = no flag
Area2-H4-14	252%	75-140%	J
Area1-I4-9	144%	75-140%	J
Area1-J1-14	180%	75-140%	J
Area2-F1-11.5	156%	75-140%	J
Area2-E1-12	141%	75-140%	Sample ND = no flag
Area2-E4-11	290%	80-140%	Sample ND = no flag
Area2-F3-11.5	336%	80-140%	Sample ND = no flag
Area2-F4-10.5	371%	80-140%	Sample ND = no flag
Area2-F1-9	279%	80-140%	Sample ND = no flag
Area2-G2-11	240%	80-140%	Sample ND = no flag
Area2-G3-11	252%	80-140%	Sample ND = no flag
Area2-H4-11	307%	80-140%	Sample ND = no flag
Area2-F5-14	211%	80-140%	J
Area2-F6-14	198%	80-140%	J
Area2-F7-14	163%	80-140%	Sample ND = no flag
Area2-E9-14	153%	80-140%	J
Area2-E8-14	182%	80-140%	J
Area2-E7-14	149%	80-140%	J
Area2-E6-14	153%	80-140%	Sample ND = no flag
Area2-E10-14	157%	80-140%	J
Area2-E5-14	162%	80-140%	J
DUP-2	172%	80-140%	J

RE: Reanalysis ND: Not detected

In some cases, surrogate recoveries were outside the control limits in quality control samples; however, these surrogate recoveries were not presented above. Data were not qualified based on the surrogate recoveries in the quality control samples.

TPH by NWTPH-Dx – The percent recoveries for surrogates 2-FBP and octacosane were outside the laboratory control limits in several samples as noted below:

Sample ID	2-FBP	2-FBP Control limit	Octacosane	Octacosane Control limit	Action
COP-T2-N	139%	60-135%	ok	75-125%	No flag
COP-T1-W	29.2%	53-120%	46.9%	68-123%	Detections = J, ND = No flag
COP-T2-W	129%	53-120%	ok	68-123%	No flag
M-020509	ok	53-120%	134%	68-123%	No flag
COP-T1-2-Oil	148%	60-135%	133%	75-125%	Detections = J, ND = No flag
COP-T1-2-Oil	212%	60-135%	152%	75-125%	Detections = J, ND = No flag
Area2-G9-14	ok	60-135%	290%	75-125%	No flag
Area1-F12-14	ok	54-148%	55.1%	62-142%	No flag
Area1-F12-14 RE	ok	54-148%	177%	62-142%	No flag
Area1-E11-14	ok	54-148%	143%	62-142%	No flag

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Sample ID (continued)	2-FBP	2-FBP Control limit	Octacosane	Octacosane Control limit	Action
Area1-E11-14 RE	NR	54-148%	NR	62-142%	No flag
DUP-4	ok	54-148%	NR	62-142%	No flag
Area1-D8-14	ok	54-148%	NR	62-142%	No flag
Area1-D8-14 RE	NR	54-148%	NR	62-142%	No flag
Area1-D11-12	ok	54-148%	NR	62-142%	No flag
Area1-D11-12 RE	NR	54-148%	NR	62-142%	No flag
CI-TK1	129%	53-125%	ok	62-142%	No flag

Ok: Result acceptable RE: Reanalysis ND: Not detected NR: Not recovered

Due to high concentrations of target analytes, one or more surrogates were diluted out of samples DUP-4, Area1-D8-14, Area1-D11-12 and the re-analyses of samples Area1-D11-12, Area1-E11-14, and Area1-D8-14. Data were not qualified based on the surrogate recoveries in the above noted samples. Data were not qualified based on the surrogate recoveries in the quality control samples.

PCBs by Method 8082 – The surrogate decachlorobiphenyl was not recovered for sample COP-T1-2-Oil. As the percent recovery for the alternate surrogate, tetrachlorometaxylene, was acceptable, data were not qualified based on the decachlorobiphenyl result.

4. Laboratory Control/Laboratory Control Duplicate Samples (LCS/LCSD) – Acceptable
5. Matrix Spike / Matrix Spike Duplicates (MS/MSD) – Acceptable except as noted below:

VOCs by Method 8260B – MS/MSDs were performed on samples I-042309, I-050509, I-061209, and 2 water samples from unrelated projects in association with the water samples. Matrix spikes were performed on 3 water samples from unrelated projects in association with the water samples. Results were acceptable. MS/MSDs were not performed in association with the soil samples. Precision and accuracy were assessed using the LCS/LCSD results.

TPH-HCID by NWTPH-HCID – A MS/MSD was not performed in association with this analysis. Precision and accuracy were assessed using the LCS/LCSD results.

Gasoline-range by NWTPH-Gx – Matrix spikes were performed on samples I-030509, Amazon Lot 34-6, Amazon Lot 34-7, Area1-J11-9, Area1-B5-14, Area1-H12-9, M-041509, Area2-C10-9, Amazon Lot 34-13, I-042309, Area1-C1-14, Area1-E1-9, I-050509, Amazon Lot 34-15, Amazon Lot 34-16, Area1-G10-7, Area1-E9-7, Area1-E1-4, Area1-G1-4, Area1-F1-4, DUP-15, Area2-I2-14, Area1-J5-9, Area2-A1-11, Area2-A2-14, ICON-POS-1, M-061209, E02-032009, and 20 samples from unrelated projects. Results were acceptable.

MS and/or MSDs were performed on samples COP-T1-S, Area2-I5-14, Area2-K5-14, Area2-F9-14, Area2-F5-11, Area1-A11-14, Area1-J15-14, Area1-J13-14, Area1-K7-10.5, Area1-J8-14, Area1-I11-14, Area2-C10-14, Area1-H13-14, Area1-H12-14, Area1-I10-9, Area1-E10-14, Area1-G13-9, Area1-A9-14, Area1-B4-9, Area1-H2-14, Area1-E9-7, Area1-G1-4, Area1-F1-4, Area2-I2-14, Area1-J5-9, Area2-A1-11, Area2-A2-14, Area2-F7-14, and 10 samples from unrelated projects. The percent recoveries for the gasoline in the MS and/or MSD were outside the laboratory control limits of 75-130% as described below.

Sample ID	MS	MSD	Action
COP-T1-S	142%	NA	Sample ND = no flag
Unknown	156%	147%	No flag based on unrelated QC samples

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Sample ID (continued)	MS	MSD	Action
Unknown	8.18%	8.58%	No flag based on unrelated QC samples
Area2-I5-14	143%	NA	Sample ND = no flag
Area2-K5-14	155%	NA	J
Unknown	145%	NA	No flag based on unrelated QC samples
Area2-G7-14	194%	NA	J
Area2-F9-14	167%	NA	No flag, sample concentration >4x spike concentration
Area2-F5-11	149%	NA	Sample ND = no flag
Unknown	131%	NA	No flag based on unrelated QC samples
Area1-A11-14	133%	NA	Sample ND = no flag
Area1-J15-14	165%	NA	No flag, previously qualified based on surrogate
Area1-J13-14	213%	NA	Sample ND = no flag
Area1-K7-10.5	135%	NA	Sample ND = no flag
Area1-J8-14	239%	NA	Sample ND = no flag
Area1-I11-14	171%	NA	J
Area2-C10-14	238%	NA	Sample ND = no flag
Area1-H13-14	168%	NA	J
Area1-H12-14	210%	NA	J
Area1-I10-9	199%	NA	J
Area1-E10-14	227%	NA	No flag, previously qualified based on surrogate
Unknown	135%	NA	No flag based on unrelated QC samples
Area1-G13-9	138%	NA	Sample ND = no flag
Area1-A9-14	143%	NA	Sample ND = no flag
Area1-B4-9	147%	NA	Sample ND = no flag
Area1-H2-14	262%	NA	Sample ND = no flag
Area1-E9-7	132%	NA	Sample ND = no flag
Area1-G1-4	137%	NA	Sample ND = no flag
Unknown	140%	146%	No flag based on unrelated QC samples
Area1-F1-4	169%	184%	Sample ND = no flag
Unknown	144%	NA	No flag based on unrelated QC samples
Unknown	281%	NA	No flag based on unrelated QC samples
Area2-I2-14	146%	NA	Sample ND = no flag
Area1-J5-9	144%	NA	Sample ND = no flag
Area2-A1-11	133%	NA	Sample ND = no flag
Area2-A2-14	154%	NA	J
Area2-F7-14	149%	NA	Sample ND = no flag

NA: Not applicable

ND: Not detected

QC: Quality control

TPH by NWTPH-Dx – Matrix spikes were performed on samples Area2-I5-14, Area2-I6-10, Area2-D8-14, Area2-F8-10.5, Amazon Lot 34-6, Area2-F5-11, Area2-B5-14, Amazon Lot 34-7, Amazon Lot 34-10, Area1-A11-14, Area1-J10-14, Area1-G11-14, Area1-D10-14, Area1-J11-9, Area1-I15-9, Area1-C9-14, Area2-C10-9, Area1-G13-9, Area1-A9-14, Area1-D12-6, Amazon Lot 34-12, Area1-E4-14, Area1-G4-14, Amazon Lot 34-13, Area1-C2-14, Area1-E2-14, Area1-D9-7, Area1-I5-14, Amazon Lot 34-14, Area1-C1-9, Area1-K4-14, Amazon Lot 34-15, Area1-E9-7, Area1-C1-4, Area1-E1-4, Area1-H1-4, Amazon Lot 34-18, Area1-G1-4, Amazon Lot 34-19, Area1-F1-4, Area1-I1-9, Area2-J3-14, Area1-K1-9, Amazon Lot 34-20, Area2-I2-14, Area1-J5-9, Area2-C1-14, Area2-B2-9, Area2-E5-14, Area1-J6-14, and 6 soil samples from unrelated projects. Results were acceptable.

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Additional matrix spikes were performed on samples Area2-G6-14, Area1-F10-14, Area1-I12-14, ICON-POS-5 and 3 samples from unrelated projects. The percent recoveries for diesel and/or lube oil in the matrix spikes were outside the laboratory control limits as described below.

MS performed on:	Analyte	MS	Control Limit	Action
Unknown	Diesel-range TPH	-116%	40-145%	No flag based on unrelated QC samples
Area2-G6-14	Lube oil	254%	26-150%	J
Unknown	Diesel-range TPH	173%	40-145%	No flag based on unrelated QC samples
Unknown	Diesel-range TPH	259%	46-155%	No flag based on unrelated QC samples
	Lube oil	595%	26-150%	No flag based on unrelated QC samples
Area1-F10-14	Diesel-range TPH	246%	46-155%	No flag, sample concentration >4x spike concentration
	Lube oil	296%	46-155%	No flag, sample concentration >4x spike concentration
Area1-I12-14	Lube oil	4.78%	26-150%	J
Unknown	Diesel-range TPH	259%	46-155%	No flag based on unrelated QC samples
	Lube oil	595%	26-150%	No flag based on unrelated QC samples
ICON-POS-5	Lube oil	10.1%	26-150%	J

PAHs by 8270-SIM – MS/MSDs were performed on samples COP-T1-S, Amazon Lot 34-6, Amazon Lot 34-12, Amazon Lot 34-13, Amazon Lot 34-14, Amazon Lot 34-15, Amazon Lot 34-16, Amazon Lot 34-18, ICON-POS-1 and 2 soil samples from unrelated projects. Results were acceptable.

Additional MS/MSDs were performed on 2 soil samples from unrelated projects. The percent recoveries for one or more PAHs in the MS and/or MSD were outside the laboratory control limits as described below.

MS/MSD performed on:	Batch ID	Analyte	MS	MSD	Control Limit
Unknown	9D01023	Fluoranthene	ok	151%	70-150%
Unknown	9D03034	Acenaphthene	149%	ok	64-140%
		Acenaphthylene	174%	152%	66-150%
		Anthracene	187%	ok	54-150%
		Chrysene	154%	ok	65-150%
		1-Methylnaphthalene	-285%	-893%	45-145%
		2-Methylnaphthalene	-192%	-939%	50-140%
		Naphthalene	-197%	-635%	47-147%
		Fluorene	ok	50.5%	74-150%

Data were not qualified based on unrelated project quality control sample results.

PCBs by 8082 – A MS/MSD associated with the soil samples was performed on a sample from an unrelated project. Results were acceptable. A MS/MSD was not performed in association with the water samples. Precision and accuracy were assessed using the LCS/LCSD. A MS/MSD was not performed in association with the oil sample. Accuracy was assessed using the LCS. Precision was not assessed.

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6. Laboratory Duplicates – Acceptable except as noted below:

VOCs by 8260B – Laboratory duplicates were performed on 2 water samples from unrelated projects. Results were acceptable.

Gasoline Range by NWTPH-Gx – Laboratory duplicates were performed on samples COP-T1-S, E02-020509, I-030509, Area2-I5-14, Area2-I7-14, Area2-K5-14, Area2-H6-14, Area2-F9-14, Amazon Lot 34-6, Area2-F5-11, Area2-F6-12, Amazon Lot 34-7, Area2-C5-14, Area1-A11-14, Area1-A10-14, Area1-J15-14, Area1-J14-14, Area1-J13-14, Area2-A6-11, Area1-K7-10.5, Area1-J8-14, Area1-I11-14, Area2-B9-9, Area1-H13-14, Area1-H12-14, Area1-H14-14, Area1-I10-9, Area1-E10-14, Area1-E10-14, Area1-C10-14, Area1-H12-9, M-041509, Area2-C10-9, Area1-G13-9, Area1-A9-14, Amazon Lot 34-12, Area1-B5-14, Amazon Lot 34-13, Area1-A2-14, Area1-B4-9, Area1-C5-7, Area1-H2-14, I-042309, Area1-C1-9, Area1-C1-14, Area1-E1-9, I-050509, Amazon Lot 34-15, Amazon Lot 34-16, Area1-G10-7, Area1-E9-7, Area1-F9-7, Area1-E1-4, Area1-G1-4, Area1-F1-4, DUP-15, Amazon Lot 34-20, Area2-I2-14, Area1-J5-9, Area2-A1-11, Area2-A2-14, DUP-20, Area2-F7-14, Area2-E9-14, ICON-POS-1, ICON-POS-2, M-032009, and 40 samples from unrelated projects. Results were acceptable.

A laboratory duplicate was performed on sample Area1-J11-9. The relative percent difference (RPD) for gasoline-range TPH (73.9%) exceeded the control limit of 40%; therefore, the result for gasoline-range TPH in sample Area1-J11-9 is qualified as estimated and flagged with a ‘J’ based on the elevated RPD.

TPH by NWTPH-Dx – Laboratory duplicates were performed on samples Area2-I5-14, Area2-J6-14, Area2-G6-14, Area2-F8-14, Area2-F8-10.5, Amazon Lot 34-6, Area2-F5-11, Area1-C12-14, Amazon Lot 34-7, Amazon Lot 34-10, Area1-A11-14, Area1-G15-14, Area2-B8-11.5, Area1-J10-14, Area1-I12-14, Area1-G11-14, Area1-G14-14, Area1-D10-14, Area1-E12-14, Area1-J11-9, Area1-I15-9, Area1-D11-9, Area1-C9-14, Area1-C7-14, Area2-C10-9, Area1-G13-9, Area1-A9-14, Area1-D12-6, Amazon Lot 34-12, Area1-E4-14, Area1-G4-14, Amazon Lot 34-13, Area1-C2-14, Area1-D9-7, Area1-I5-14, Area1-J4-14, Amazon Lot 34-14, Area1-C1-9, Area1-D8-2, Area1-K4-14, Amazon Lot 34-15, Area1-E9-7, Area1-C1-4, Area1-D1-7, Area1-E1-4, Area1-H1-4, Amazon Lot 34-18, Area1-G1-4, Amazon Lot 34-19, Area1-F1-4, Area1-B14-2, Area1-I1-9, Area1-I4-4, Area2-J3-14, Area1-K1-9, Amazon Lot 34-20, Area2-I2-14, Area1-J5-9, Area2-I1-11, Area2-C1-14, Area2-B2-9, Amazon Lot 34-21, Area2-F7-14, Area2-E5-14, Area1-J6-14, Area1-J7-14, Area2-G9-14, Area2-G1-14, Area2-A3-14, ICON-POS-5, Area2-C8-14, and 12 soil samples from unrelated projects. Results were acceptable.

Laboratory duplicates were performed on samples Area2-I6-10, Area2-D8-14, Area1-F10-14, Area2-B5-14, and Area1-F3-14. The relative percent differences (RPDs) for one or more analytes exceeded the control limit of 20% as described below.

Lab dup performed on:	Analyte	RPD	Action
Area2-I6-10	Diesel-range	73.7%	No flag
	Lube oil	113%	No flag
Area2-D8-14	Lube oil	56.7%	No flag
Area1-F10-14	Kerosene	59.0%	J
	Diesel Range	69.6%	J
	Lube Oil	69.2%	J
Area2-B5-14	Diesel Range	73.0%	J
	Lube Oil	92.5%	J
Area1-F3-14	Diesel Range	121%	J
	Lube Oil	108%	J

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The results for TPHs were reported as not detected or were within 2x the reporting limit in samples Area2-I6-10 and Area2-D8-14; therefore, data is not qualified based on the RPD results.

7. Field Duplicate – Acceptable except as noted below:

General – Field duplicates were submitted for VOCs, gasoline-range TPH, and diesel-range, lube oil, and kerosene TPH for the parent sample / field duplicate pairs noted in the table below. The RPDs for one or more analytes exceeded the control limit of 50% for the parent sample / field duplicate pairs as described below.

Duplicate ID	Parent Sample ID	Analyte	% RPD	Action
Dup-1	Area2-H5-14	Benzene	81%	J
		Ethylbenzene	117%	J
		Toluene	128%	J
		o-Xylene	120%	J
		m,p-Xylene	118%	J
		Total Xylenes	118%	J
		Gasoline Range Hydrocarbons	109%	J
DUP-2	Area2-E5-14	Diesel Range Hydrocarbons	111%	J
		Benzene	109%	J
		Ethylbenzene	92%	J
		Naphthalene	62%	J
		Toluene	110%	J
		o-Xylene	146%	J
		m,p-Xylene	160%	J
		Total Xylenes	157%	J
DUP-3	Area1-I10-14	Benzene	190%	J
		Ethylbenzene	88%	J
		o-Xylene	84%	J
		m,p-Xylene	80%	J
		Xylenes (total)	81%	J
		Gasoline Range Hydrocarbons	90%	J
		Naphthalene	80%	J
DUP-4	Area1-D11-14	Kerosene	90%	J
		Diesel Range Hydrocarbons	87%	J
		Lube Oil	74%	J
DUP-5	Area1-D11-9	Diesel Range Hydrocarbons	71%	J
DUP-6	Area1-C8-14	Gasoline Range Hydrocarbons	60%	J
DUP-10	Area1-D5-14	Toluene	52%	J
DUP-11	Area1-H5-14	o-Xylene	68%	J
		Toluene	106%	J
DUP-12	Area1-G3-14	Ethylbenzene	63%	J
		m,p-Xylene	51%	J
		Xylenes (total)	71%	J

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Duplicate ID (continued)	Parent Sample ID	Analyte	% RPD	Action
Dup-13	Area1-J2-14	Ethylbenzene	170%	J
		Lube Oil	94%	J
		m,p-Xylene	172%	J
		Toluene	129%	J
		Xylenes (total)	170%	J
Dup-14	Area1-D1-14	Gasoline Range Hydrocarbons	83%	J
DUP-15	Area2-F3-14	Benzene	63%	J
		Kerosene	76%	J
DUP-17	Area2-I1-14	Toluene	81%	J
DUP-19	Area2-B2-14	Kerosene	54%	J

8. Reporting Limits – Acceptable except as noted below:

General – The reporting limits for several analytes were elevated in the soil samples due to the percent moisture content of the samples and/or dilutions necessary to quantitate target analytes. In some cases, the elevated reporting limits may affect the use of the data for project objectives.

The results for one or more analytes in several samples were assigned a ‘J’ qualifier by the laboratory to indicate that the reported concentration is above the MDL, but below the MRL. All J-flagged results are considered estimated unless previously qualified.

The laboratory noted for one or more samples that “the sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix.”

VOCs by 8260B – The laboratory noted the internal standard was below method limits for several VOCs in several samples and/or associated surrogates. The results for VOCs flagged ‘I’ or ‘I2’ in the samples are qualified as estimated and flagged with a ‘J’ when reported as detected or a ‘UJ’ when reported as not detected. Data were not qualified in quality control samples based on the internal standard results.

Sample CI-TK1 was analyzed for benzene, toluene, ethylbenzene, and total xylenes by both EPA Method 8260B and EPA Method 8021B in order to meet the data quality objectives (DQOs) of the project. As the reporting limits for benzene, toluene, ethylbenzene, and/or total xylenes analyzed by EPA Method 8260 are lower than those reported by EPA Method 8021B, the sample results for benzene, toluene, and ethylbenzene by EPA Method 8021B are qualified with the flag Do Not Report (DNR) and reported from the EPA Method 8260B. The results from xylenes are qualified with the flag ‘DNR’ in EPA Method 8260B and reported from EPA Method 8021B.

The results for several VOCs in sample Area2-K5-14 were flagged ‘E’ by the laboratory. The laboratory reanalyzed the sample and the results were inconsistent. Sample results for the reanalysis of this sample are qualified ‘DNR.’ VOCs flagged ‘E’ in the initial analysis of the sample are qualified as estimated and flagged with a ‘J’.

The laboratory noted that additional methanol was added due to sample matrix absorption for samples Area2-B9-12 and Area2-B7-11.5 resulting in elevated reporting limits. Data were not qualified based on the methanol addition.

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The percent differences (%Ds) for MTBE, acetone, 2-butanone, chloromethane, dichlorodifluoromethane, methylene chloride, and vinyl chloride exceeded the method limit of 15% in several continuing calibrations. The results for acetone in samples Amazon Lot 34-15 and Amazon Lot 34-16 are qualified as estimated and flagged with a 'UJ' based on the %Ds in the continuing calibration. Data were not qualified for the quality control samples associated with these continuing calibrations.

The percent differences (%Ds) for methylene chloride, dichlorodifluoromethane, benzene, MTBE, 1,2-dichloroethane, and toluene exceeded the method limit of 15% in several continuing calibrations. The results for methylene chloride in sample Amazon Lot 34-10 is qualified as estimated and flagged with a 'UJ' based on the %Ds in the continuing calibration. The results for dichlorodifluoromethane in samples Amazon Lot 34-7, Amazon Lot 34-8, and Amazon Lot 34-9 are qualified as estimated and flagged with a 'UJ' based on the %Ds in the continuing calibration. Data were not qualified in quality control samples based on the associated continuing calibration.

TPH-HCID by NWTPH-HCID – The laboratory noted that the chromatograph pattern for the TPH results resembled weathered diesel.

Gasoline-range by NWTPH-Gx – The results for gasoline-range TPH in several samples were assigned a qualifier by the laboratory to indicate that the chromatographic fingerprint did not match the calibration standard. No additional qualifiers were necessary based on the qualifiers assigned by the laboratory.

The laboratory noted that additional methanol was added due to sample matrix absorption for samples Area1-J12-14, Area2-B9-12, and Area2-B7-11.5 resulting in elevated reporting limits. Data were not qualified based on the methanol addition.

The laboratory noted the continuing calibration recoveries for gasoline-range TPH was out high in several samples. Data were qualified in samples Area1-J2-9 and Area1-J2-7 as estimated and flagged with a 'J' unless previously qualified. The results for gasoline-range TPH in the remaining associated samples were reported as not detected; therefore, data were not qualified in these samples based on the continuing calibration recoveries.

TPH by NWTPH-Dx – The laboratory noted the continuing calibration recoveries for lube oil was out high in samples I-020509, M-020509, E01-020509, E02-020509, and E03-020509. As lube oil was not detected in the samples, data were not qualified based on the continuing calibration recoveries.

The laboratory noted the continuing calibration recovery for the surrogate octacosane was out high. Data were not qualified based on the surrogate recoveries in continuing calibrations.

The laboratory analyzed samples Area2-G6-14, Area2-G5-14, Area2-F9-14, and Area2-F8-14 for NWTPH-Dx with silica gel cleanup and without silica gel cleanup. The results from the NWTPH-Dx without silica gel cleanup are qualified Do Not Report and flagged 'DNR'.

The results for TPHs in several samples were assigned a qualifier by the laboratory to indicate that the chromatographic fingerprint did not match the calibration standard. No additional qualifiers were necessary based on the qualifiers assigned by the laboratory.

PAHs by 8270-SIM – The laboratory noted the internal standard was below method limits for several PAHs in the method blank. Method blank results were not qualified based on the internal standard results.

The laboratory noted the continuing calibration recoveries for fluoranthene and benzo(b)fluoranthene were exceeded the method limits of 20%. As fluoranthene and benzo(b)fluoranthene were not detected in the associated samples, data were not qualified based on the continuing calibration recoveries. Data were not qualified in quality control samples based on the associated continuing calibration.

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Metals

Samples were analyzed for metals by the methods identified in the introduction to this report.

1. Holding Times - Acceptable
2. Blanks – Acceptable
3. Laboratory Control/Laboratory Control Duplicate Samples (LCS/LCSD) – Acceptable
4. Matrix Spike / Matrix Spike Duplicates (MS/MSD) – Acceptable except as noted below:

Total Metals by 6000/7000 – Matrix spikes were performed on samples COP-T2-W, Area2-I5-14, Area2-F9-14, Area2-D6-14, Area2-F9-11.5, Area1-A11-14, Area1-J15-14, Area1-I11-14, Area1-I10-9, Area1-J11-9, Area1-C7-14, Area2-C10-9, Area1-G13-9, Area1-A9-14, Amazon Lot 34-12, Area1-B4-14, Area1-F4-14, Amazon Lot 34-13, Area1-B4-9, Area1-C1-14, Area1-K4-14, Amazon Lot 34-15, Amazon Lot 34-16, Area1-C1-4, Area1-E1-7, Area1-H1-4, Amazon Lot 34-19, Area1-B3-4, Area2-A5-11, Area1-I1-14, Area2-J3-14, Area1-K1-14, Area2-F2-14, Area1-J5-9, Area2-G1-14, Area2-C1-14, Area2-A2-14, Area2-B2-9, Area2-E8-14, CI-TK1, ICON-POS-1, Area2-A6-11, and 10 samples from unrelated projects. Results were acceptable.

A MS was performed on sample Area2-K9-14. The percent recovery for lead (-168%) was below the laboratory control limits of 75-125%. As the sample concentration was more than four times the spike concentration, data were not qualified based on the MS result.

A MS was performed on sample Area2-J5-14. The percent recovery for lead (131%) exceeded the laboratory control limits of 75-125%. The results for lead in samples Area2-J5-14, Area2-I9-14, Area2-H6-14, Area2-H7-14, Area2-H8-14, Area2-G7-14, Area2-G8-14, and Area2-G9-14 are qualified as estimated and flagged with a 'J'.

A MS was performed on sample Area1-H12-9. The percent recovery for lead (25.9%) was below the laboratory control limits of 75-125%. The results for lead in samples Area1-H12-9, Area1-I15-9, Area1-B10-14, Area1-C10-14, Area1-C11-14, Area1-F12-9, Area1-E11-9, Area1-D11-9, DUP-5, Area1-H15-9, Area1-G15-9, and Area1-F15-9 are qualified as estimated and flagged with a 'J'.

A MS was performed on sample Area1-I4-14. The percent recovery for barium (126%) exceeded the laboratory control limits of 75-125%. The result for barium in sample Amazon Lot 34-14 is qualified as estimated and flagged with a 'J'.

A MS was performed on sample Area2-C5-14. The percent recoveries for lead (189%) and barium (134%) exceeded the laboratory control limits of 75-125%. The results for lead reported as detected in samples Area2-C5-14, Area2-B5-14, Area2-B6-14, Area2-B7-14, Area2-B8-14, Area2-B9-14, Area2-A6-14, Area2-A7-14, Area2-A8-14, Area2-A9-14, Area2-D5-11.5, Area2-D6-11.5, Area2-D7-11.5, Area2-D8-11.5, Area2-D9-11.5, Area1-K9-14, Area1-K8-14, Area1-K7-14, and Amazon Lot 34-10 are qualified as estimated and flagged with a 'J'. Barium was not detected in the associated samples and no qualification for this analyte is required based on this MS.

MS/MSDs were performed on samples COP-T1-N, COP-T1-W, COP-T2-W, Amazon Lot 34-6, Area2-F5-11, Amazon Lot 34-7, Amazon Lot 34-10, Amazon Lot 34-12, Amazon Lot 34-13, Amazon Lot 34-14, Amazon Lot 34-15, Amazon Lot 34-16, Amazon Lot 34-18, Amazon Lot 34-19, Area1-B14-2, Amazon Lot 34-21, ICON-POS-1, Amazon Lot 34-10, and 6 samples from unrelated projects. Results were acceptable.

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A MS/MSD was performed on a sample from an unrelated project. The percent recoveries for mercury in the MS (14.1%) and the MSD (17.1%) were below the laboratory control limits of 75-125%. Data were not qualified based on unrelated project quality control sample results.

TCLP lead by 1311/6000/7000 – Matrix spikes were performed on samples Areal-G10-14, Areal-H12-14, Areal-H12-9, Areal-C9-14, Areal-H11-12, Areal-G3-14, Areal-D9-7, and ICON-POS-1. Results were acceptable.

5. Post-Digestion Spikes – Acceptable

Total Metals by 6000/7000 – Post-digestion spikes were performed on samples COP-T2-W, Area2-I5-14, Area2-K9-14, Area2-J5-14, Area-F9-14, Area2-D6-14, Area2-F9-11.5, Area2-F5-11, Amazon Lot 34-7, Area2-C5-14, Areal-A11-14, Areal-J15-14, Areal-I11-14, Areal-I10-9, Areal-J11-9, Areal-H12-9, Areal-C7-14, Area2-C10-9, Areal-G13-9, Areal-A9-14, Amazon Lot 34-12, Areal-B4-14, Areal-F4-14, Amazon Lot 34-13, Areal-B4-9, Areal-I4-14, Areal-C1-14, Areal-K4-14, Amazon Lot 34-15, Amazon Lot 34-16, Areal-C1-4, Areal-E1-7, Areal-H1-4, Amazon Lot 34-19, Areal-B3-4, Area2-A5-11, Areal-I1-14, Area2-J3-14, Areal-K1-14, Area2-F2-14, Areal-J5-9, Area2-G1-14, Area2-C1-14, Area2-A2-14, Area2-B2-9, Area2-E8-14, C1-TK1, ICON-POS-1, Area2-A6-11, and 14 samples from unrelated projects. Results were acceptable.

TCLP lead by 1311/6000/7000 – Post-digestion spikes were performed on samples Areal-G10-14, Areal-H12-14, Areal-H12-9, Areal-C9-14, Areal-H11-12, Areal-G3-14, Areal-D9-7, and ICON-POS-1. Results were acceptable.

6. Laboratory Duplicates – Acceptable except as noted below:

Total Metals by 6000/7000 – Laboratory duplicates were performed on samples COP-T2-W, Area2-K9-14, Area2-J5-14, Area-F9-14, Area2-D6-14, Area2-F5-11, Amazon Lot 34-7, Area2-C5-14, Areal-A11-14, Areal-J15-14, Areal-I11-14, Areal-I10-9, Area2-C10-9, Areal-G13-9, Amazon Lot 34-12, Areal-F4-14, Areal-I4-14, Areal-C1-14, Areal-K4-14, Amazon Lot 34-15, Areal-C1-4, Areal-E1-7, Areal-B14-2, Areal-K1-14, Area2-F2-14, Areal-J5-9, Area2-G1-14, Area2-C1-14, Area2-A2-14, Area2-B2-9, Amazon Lot 34-21, C1-TK1, ICON-POS-1, Area2-A6-11, and 10 samples from unrelated projects. Results were acceptable.

Laboratory duplicates were performed on samples Area2-I5-14, Area2-F9-11.5, Areal-J11-9, Areal-H12-9, Areal-C7-14, Areal-A9-14, Areal-B4-14, Amazon Lot 34-13, Areal-B4-9, Amazon Lot 34-16, Areal-H1-4, Amazon Lot 34-19, Areal-B3-4, Area2-A5-11, Areal-I1-14, Area2-J3-14, Area2-E8-14, and 3 samples from unrelated projects. The RPDs for one or more total metals exceeded the control limit of 20% as described below.

Lab dup performed on:	Analyte	RPD	Action
Area2-I5-14	Lead	43.7%	J all associated sample results
Area2-F9-11.5	Lead	41.0%	J all associated sample results
Areal-J11-9	Lead	26.3%	J all associated sample results
Areal-H12-9	Lead	21.6%	J all associated sample results
Areal-C7-14	Lead	31.7%	J all associated sample results
Areal-A9-14	Lead	23.2%	J all associated sample results
Areal-B4-14	Lead	32.6%	J all associated sample results
Amazon Lot 34-13	Lead	27.2%	J all associated sample results

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Lab dup performed on (continued):	Analyte	RPD	Action
Area1-B4-9	Lead	23.6%	J all associated sample results
Amazon Lot 34-16	Lead	76.5%	J all associated sample results
Area1-H1-4	Cadmium	40.0%	J/UJ all associated sample results
	Arsenic	33.8%	J all associated sample results
Amazon Lot 34-19	Barium	26.6%	J all associated sample results
Area1-B3-4	Lead	35.5%	J all associated sample results
Area2-A5-11	Lead	55.8%	J all associated sample results
Area1-I1-14	Lead	38.5%	J all associated sample results
Area2-J3-14	Lead	75.7%	J all associated sample results
Area2-E8-14	Lead	25.8%	J all associated sample results
Unknown (9B02018)	Silver	30.3%	No flag based on unrelated QC samples
	Cadmium	28.2%	No flag based on unrelated QC samples
Unknown (9C20046)	Lead	30.7%	No flag based on unrelated QC samples
Unknown (9D13002)	Arsenic	25.0%	No flag based on unrelated QC samples
Unknown (9F09032)	Lead	43.0%	No flag based on unrelated QC samples

(#) = Lab Batch ID

The results for arsenic, barium, cadmium, and/or lead are qualified as estimated and flagged with a 'J' or 'UJ' in all samples associated with the above noted samples based on laboratory duplicate results. Data were not qualified based on unrelated project quality control sample results.

TCLP lead by 1311/6000/7000 – Laboratory duplicates were performed on samples Area1-G10-14, Area1-H12-14, Area1-H12-9, Area1-C9-14, Area1-H11-12, Area1-G3-14, Area1-D9-7, and ICON-POS-1. Results were acceptable.

7. Field Duplicate – Acceptable except as noted below:

General – Field duplicates were submitted for total metals and/or TCLP lead for the parent sample / field duplicate pairs noted in the table below. The RPDs for total lead exceeded the control limit of 50% for the parent sample / field duplicate pairs as described below.

Duplicate ID	Parent Sample ID	Analyte	RPD	Action
Dup-1	Area2-H5-14	Lead, total	66%	J
DUP-12	Area1-G3-14	Lead, total	80%	J

ok – RPD within limits

6. Reporting Limits – Acceptable except as noted below:

The reporting limits for one or more metals were elevated in the soil samples due to the percent moisture content of the samples and/or dilutions necessary to quantitate target analytes. In some cases, the elevated reporting limits may affect the use of the data for project objectives.

Conventional Analysis

Samples were analyzed for pH by the methods specified in the introduction to this report.

1. Holding Times – Acceptable

**Summary Data Quality Review
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2. Laboratory Duplicates – Acceptable

Laboratory duplicates were performed on sample COP-T1.2-W and a sample from an unrelated project. Results were acceptable.

3. Reporting Limits - Acceptable

Overall Assessment of Data

The data reported in these SDGs, as qualified, are considered to be usable for meeting project objectives. The completeness for these SDGs is 100%.

Table 1
Laboratory Sample Cross-Reference

Sample ID	TA ID	Matrix	Requested Analysis
COP-T1-N	BSA0265-01	Soil	BTEX, TPH, PAHs, RCRA Metals
COP-T1-S	BSA0265-02	Soil	BTEX, TPH, PAHs, RCRA Metals
COP-T1-W	BSA0265-03	Water	VOCs, TPH, RCRA Metals
COP-T2-S	BSB0004-01	Soil	PAHs, TPH, BTEX
COP-T2-N	BSB0004-02	Soil	PAHs, TPH, BTEX
COP-T2-W	BSB0014-01	Water	VOCs, TPH, RCRA Metals
COP-T2-W	BSB0021-01	Water	PCBs
I-020509	BSB0032-01	Water	BTEX, TPH
M-020509	BSB0032-02	Water	BTEX, TPH
E01-020509	BSB0032-03	Water	BTEX, TPH, Metals
E02-020509	BSB0032-04	Water	TPH
E03-020509	BSB0032-05	Water	TPH
COP-T1.2-Oil	BSB0073-01	Other	VOCs, TPH, PCBs, RCRA Metals, pH
COP-T1.2-W	BSB0083-01	Water	PCBs, RCRA Metals, pH
Area1-SCB-4-26.5	BSC0025-01	Soil	VOCs, TPHs
I-030509	BSC0052-01	Water	BTEX, TPH
M-030509	BSC0052-02	Water	BTEX, TPH
E01-030509	BSC0052-03	Water	BTEX, TPH, Metals
E03-030509	BSC0052-04	Water	TPH
E03-030509	BSC0052-05	Water	TPH
Area2-I5-14	BSC0199-01	Soil	VOCs, TPH, Total Lead
Area2-I6-14	BSC0199-02	Soil	VOCs, TPH, Total Lead
Area2-I7-14	BSC0199-03	Soil	VOCs, TPH, Total Lead
Area2-I8-14	BSC0199-04	Soil	VOCs, TPH, Total Lead
Area2-J9-14	BSC0199-05	Soil	VOCs, TPH, Total Lead
Area2-J8-14	BSC0199-06	Soil	VOCs, TPH, Total Lead
Area2-J7-14	BSC0199-07	Soil	VOCs, TPH, Total Lead
Area2-J6-14	BSC0199-08	Soil	VOCs, TPH, Total Lead
Area2-H9-14	BSC0199-09	Soil	VOCs, TPH, Total Lead
Area2-H5-14	BSC0199-10	Soil	VOCs, TPH, Total Lead
Dup-1 (Duplicate of Area2-H5-14)	BSC0199-11	Soil	VOCs, TPH, Total Lead
Area2-K5-14	BSC0225-01	Soil	VOCs, TPH, Total Lead
Area2-K6-14	BSC0225-02	Soil	VOCs, TPH, Total Lead
Area2-K8-14	BSC0225-03	Soil	VOCs, TPH, Total Lead
Area2-K10-14	BSC0225-04	Soil	VOCs, TPH, Total Lead
Area2-K7-14	BSC0225-05	Soil	VOCs, TPH, Total Lead
I-032009	BSC0230-01	Water	VOCs, TPH
M-032009	BSC0230-02	Water	VOCs, TPH
E01-032009	BSC0230-03	Water	VOCs, TPH, Zinc
E02-032009	BSC0230-04	Water	TPH
E03-032009	BSC0230-05	Water	TPH
Area2-K9-14	BSC0232-01	Soil	VOCs, TPH, Total Lead
Area2-H10-14	BSC0232-02	Soil	VOCs, TPH, Total Lead
Area2-J10-14	BSC0232-03	Soil	VOCs, TPH, Total Lead
Area2-I10-14	BSC0232-04	Soil	VOCs, TPH, Total Lead
Area2-G10-14	BSC0232-05	Soil	VOCs, TPH, Total Lead
Area2-I6-10	BSC0232-06	Soil	VOCs, TPH, Total Lead
Area2-J5-14	BSC0245-01	Soil	VOCs, TPH, Total Lead
Area2-I9-14	BSC0245-02	Soil	VOCs, TPH, Total Lead
Area2-H6-14	BSC0245-03	Soil	VOCs, TPH, Total Lead
Area2-H7-14	BSC0245-04	Soil	VOCs, TPH, Total Lead
Area2-H8-14	BSC0245-05	Soil	VOCs, TPH, Total Lead
Area2-G7-14	BSC0245-06	Soil	VOCs, TPH, Total Lead
Area2-G8-14	BSC0245-07	Soil	VOCs, TPH, Total Lead
Area2-G9-14	BSC0245-08	Soil	VOCs, TPH, Total Lead
Area2-G6-14	BSC0260-01	Soil	VOCs, TPH, Total Lead
Area2-G5-14	BSC0260-02	Soil	VOCs, TPH, Total Lead
Area2-F9-14	BSC0260-03	Soil	VOCs, TPH, Total Lead
Area2-F8-14	BSC0260-04	Soil	VOCs, TPH, Total Lead
Area2-F5-14	BSC0295-01	Soil	VOCs, TPH, Total Lead
Area2-F6-14	BSC0295-02	Soil	VOCs, TPH, Total Lead
Area2-F7-14	BSC0295-03	Soil	VOCs, TPH, Total Lead

Table 1
Laboratory Sample Cross-Reference

Sample ID	TA ID	Matrix	Requested Analysis
Area2-E9-14	BSC0295-04	Soil	VOCs, TPH, Total Lead
Area2-E8-14	BSC0295-05	Soil	VOCs, TPH, Total Lead
Area2-E7-14	BSC0295-06	Soil	VOCs, TPH, Total Lead
Area2-E6-14	BSC0295-07	Soil	VOCs, TPH, Total Lead
Area2-F10-14	BSC0295-08	Soil	VOCs, TPH, Total Lead
Area2-E10-14	BSC0295-09	Soil	VOCs, TPH, Total Lead
Area2-E5-14	BSC0295-10	Soil	VOCs, TPH, Total Lead
Area2-D5-14	BSC0295-11	Soil	VOCs, TPH, Total Lead
DUP-2 (Duplicate of Area2-E5-14)	BSC0295-12	Soil	VOCs, TPH, Total Lead
Area2-D6-14	BSC0309-01	Soil	VOCs, TPH, Total Lead
Area2-D7-14	BSC0309-02	Soil	VOCs, TPH, Total Lead
Area2-D8-14	BSC0309-03	Soil	VOCs, TPH, Total Lead
Area2-D9-14	BSC0309-04	Soil	VOCs, TPH, Total Lead
Area2-F9-11.5	BSC0323-01	Soil	VOCs, TPH, Total Lead
Area2-F8-10.5	BSC0323-02	Soil	VOCs, TPH, Total Lead
Area2-E9-11.5	BSC0323-03	Soil	VOCs, TPH, Total Lead
Area2-E8-11.5	BSC0323-04	Soil	VOCs, TPH, Total Lead
Amazon Lot 34-6	BSC0324-01	Soil	VOCs, TPH, PAHs, RCRA Metals
Area2-F5-11	BSD0016-01	Soil	VOCs, TPH, Total Lead
Area2-F6-12	BSD0016-02	Soil	VOCs, TPH, Total Lead
Area2-E5-11.5	BSD0016-03	Soil	VOCs, TPH, Total Lead
Area2-E6-12	BSD0016-04	Soil	VOCs, TPH, Total Lead
Area2-E7-11.5	BSD0016-05	Soil	VOCs, TPH, Total Lead
Area1-B11-14	BSD0016-06	Soil	VOCs, TPH, Total Lead
Area1-B12-14	BSD0016-07	Soil	VOCs, TPH, Total Lead
Area1-B13-14	BSD0016-08	Soil	VOCs, TPH, Total Lead
Area1-B14-14	BSD0016-09	Soil	VOCs, TPH, Total Lead
Area1-C13-14	BSD0016-10	Soil	VOCs, TPH, Total Lead
Area1-C12-14	BSD0016-11	Soil	VOCs, TPH, Total Lead
Amazon Lot 34-7	BSD0035-01	Soil	VOCs, TPH, PAHs, RCRA Metals
Amazon Lot 34-8	BSD0035-02	Soil	VOCs, TPH, PAHs, RCRA Metals
Amazon Lot 34-9	BSD0035-03	Soil	VOCs, TPH, PAHs, RCRA Metals
Area1-G10-14	BSD0036-01	Soil	VOCs, TPH, Total Lead
Area1-F10-14	BSD0036-02	Soil	VOCs, TPH, Total Lead
Area1-H10-14	BSD0036-03	Soil	VOCs, TPH, Total Lead
Area2-C9-14	BSD0036-04	Soil	VOCs, TPH, Total Lead
Area2-C8-14	BSD0036-05	Soil	VOCs, TPH, Total Lead
Area2-C7-14	BSD0036-06	Soil	VOCs, TPH, Total Lead
Area2-C6-14	BSD0036-07	Soil	VOCs, TPH, Total Lead
Area2-C5-14	BSD0053-01	Soil	VOCs, TPH, Total Lead
Area2-B5-14	BSD0053-02	Soil	VOCs, TPH, Total Lead
Area2-B6-14	BSD0053-03	Soil	VOCs, TPH, Total Lead
Area2-B7-14	BSD0053-04	Soil	VOCs, TPH, Total Lead
Area2-B8-14	BSD0053-05	Soil	VOCs, TPH, Total Lead
Area2-B9-14	BSD0053-06	Soil	VOCs, TPH, Total Lead
Area2-A6-14	BSD0053-07	Soil	VOCs, TPH, Total Lead
Area2-A7-14	BSD0053-08	Soil	VOCs, TPH, Total Lead
Area2-A8-14	BSD0053-09	Soil	VOCs, TPH, Total Lead
Area2-A9-14	BSD0053-10	Soil	VOCs, TPH, Total Lead
Area2-D5-11.5	BSD0053-11	Soil	VOCs, TPH, Total Lead
Area2-D6-11.5	BSD0053-12	Soil	VOCs, TPH, Total Lead
Area2-D7-11.5	BSD0053-13	Soil	VOCs, TPH, Total Lead
Area2-D8-11.5	BSD0053-14	Soil	VOCs, TPH, Total Lead
Area2-D9-11.5	BSD0053-15	Soil	VOCs, TPH, Total Lead
Area1-K9-14	BSD0053-16	Soil	VOCs, TPH, Total Lead
Area1-K8-14	BSD0053-17	Soil	VOCs, TPH, Total Lead
Area1-K7-14	BSD0053-18	Soil	VOCs, TPH, Total Lead

Table 1
Laboratory Sample Cross-Reference

Sample ID	TA ID	Matrix	Requested Analysis
Amazon Lot 34-10	BSD0054-01	Soil	VOCs, TPH, PAHs, RCRA Metals
Areal-A11-14	BSD0065-01	Soil	VOCs, TPH, Total Lead
Areal-A10-14	BSD0065-02	Soil	VOCs, TPH, Total Lead
Areal-A12-14	BSD0065-03	Soil	VOCs, TPH, Total Lead
Areal-A13-14	BSD0065-04	Soil	VOCs, TPH, Total Lead
Areal-A14-14	BSD0065-05	Soil	VOCs, TPH, Total Lead
Areal-A15-14	BSD0065-06	Soil	VOCs, TPH, Total Lead
Areal-B15-14	BSD0065-07	Soil	VOCs, TPH, Total Lead
Areal-C15-14	BSD0065-08	Soil	VOCs, TPH, Total Lead
Areal-C14-14	BSD0065-09	Soil	VOCs, TPH, Total Lead
Areal-D15-14	BSD0065-10	Soil	VOCs, TPH, Total Lead
Areal-E15-14	BSD0065-11	Soil	VOCs, TPH, Total Lead
Areal-F15-14	BSD0065-12	Soil	VOCs, TPH, Total Lead
Areal-G15-14	BSD0065-13	Soil	VOCs, TPH, Total Lead
Areal-J15-14	BSD0078-01	Soil	VOCs, TPH, Total Lead
Areal-J14-14	BSD0078-02	Soil	VOCs, TPH, Total Lead
Areal-J12-14	BSD0078-03	Soil	VOCs, TPH, Total Lead
Areal-J13-14	BSD0078-04	Soil	VOCs, TPH, Total Lead
Areal-J11-14	BSD0078-05	Soil	VOCs, TPH, Total Lead
Area2-C6-12	BSD0078-06	Soil	VOCs, TPH, Total Lead
Area2-C9-12	BSD0078-07	Soil	VOCs, TPH, Total Lead
Area2-B9-12	BSD0078-08	Soil	VOCs, TPH, Total Lead
Area2-B8-11.5	BSD0078-09	Soil	VOCs, TPH, Total Lead
Area2-B7-11.5	BSD0078-10	Soil	VOCs, TPH, Total Lead
Area2-B6-12.5	BSD0078-11	Soil	VOCs, TPH, Total Lead
Areal-J10-14	BSD0078-12	Soil	VOCs, TPH, Total Lead
Area2-A6-11	BSD0092-01	Soil	VOCs, TPH, Total Lead
Areal-K10-14	BSD0092-02	Soil	VOCs, TPH, Total Lead
Areal-K9-11.5	BSD0092-03	Soil	VOCs, TPH, Total Lead
Areal-K8-11.5	BSD0092-04	Soil	VOCs, TPH, Total Lead
Areal-K7-10.5	BSD0092-05	Soil	VOCs, TPH, Total Lead
Areal-K6-10.5	BSD0092-06	Soil	VOCs, TPH, Total Lead
Areal-J6-14	BSD0092-07	Soil	VOCs, TPH, Total Lead
Areal-J7-14	BSD0092-08	Soil	VOCs, TPH, Total Lead
Areal-J8-14	BSD0092-09	Soil	VOCs, TPH, Total Lead
Areal-J9-14	BSD0092-10	Soil	VOCs, TPH, Total Lead
Areal-I6-14	BSD0092-11	Soil	VOCs, TPH, Total Lead
Areal-I7-14	BSD0092-12	Soil	VOCs, TPH, Total Lead
Areal-I8-14	BSD0092-13	Soil	VOCs, TPH, Total Lead
Areal-I9-14	BSD0092-14	Soil	VOCs, TPH, Total Lead
Areal-I10-14	BSD0092-15	Soil	VOCs, TPH, Total Lead
Areal-H8-14	BSD0092-16	Soil	VOCs, TPH, Total Lead
Areal-H9-14	BSD0092-17	Soil	VOCs, TPH, Total Lead
Areal-H11-14	BSD0092-18	Soil	VOCs, TPH, Total Lead, TCLP lead
DUP-3 (Duplicate of Areal-I10-14)	BSD0092-19	Soil	VOCs, TPH, Total Lead
Areal-I11-14	BSD0108-01	Soil	VOCs, TPH, Total Lead
Areal-I12-14	BSD0108-02	Soil	VOCs, TPH, Total Lead
Area2-D10-14	BSD0108-03	Soil	VOCs, TPH, Total Lead
Area2-C10-14	BSD0108-04	Soil	VOCs, TPH, Total Lead
Area2-B10-14	BSD0108-05	Soil	VOCs, TPH, Total Lead
Area2-A10-14	BSD0108-06	Soil	VOCs, TPH, Total Lead
Area2-B6-9	BSD0108-07	Soil	VOCs, TPH, Total Lead
Area2-C9-9	BSD0108-08	Soil	VOCs, TPH, Total Lead
Areal-H7-14	BSD0108-09	Soil	VOCs, TPH, Total Lead
Area2-B9-9	BSD0108-10	Soil	VOCs, TPH, Total Lead
Areal-H12-14	BSD0125-01	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-H13-14	BSD0125-02	Soil	VOCs, TPH, Total Lead

Table 1
Laboratory Sample Cross-Reference

Sample ID	TA ID	Matrix	Requested Analysis
Areal-H14-14	BSD0125-03	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-H15-14	BSD0125-04	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-I13-14	BSD0125-05	Soil	VOCs, TPH, Total Lead
Areal-I14-14	BSD0125-06	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-I15-14	BSD0125-07	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-F11-14	BSD0125-08	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-F12-14	BSD0125-09	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-F13-14	BSD0125-10	Soil	VOCs, TPH, Total Lead
Areal-F14-14	BSD0125-11	Soil	VOCs, TPH, Total Lead
Areal-G11-14	BSD0125-12	Soil	VOCs, TPH, Total Lead
Areal-G12-14	BSD0125-13	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-G13-14	BSD0125-14	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-G14-14	BSD0125-15	Soil	VOCs, TPH, Total Lead
Areal-J8-9	BSD0125-16	Soil	VOCs, TPH, Total Lead
Areal-J9-9	BSD0125-17	Soil	VOCs, TPH, Total Lead
Areal-I10-9	BSD0135-01	Soil	VOCs, TPH, RCRA Metals
Areal-E10-14	BSD0135-02	Soil	VOCs, TPH, RCRA Metals, TCLP lead
Areal-E11-14	BSD0135-03	Soil	VOCs, TPH, RCRA Metals, TCLP lead
Areal-E13-14	BSD0135-04	Soil	VOCs, TPH, RCRA Metals
Areal-E14-14	BSD0135-05	Soil	VOCs, TPH, RCRA Metals
Areal-D10-14	BSD0135-06	Soil	VOCs, TPH, RCRA Metals
Areal-D11-14	BSD0135-07	Soil	VOCs, TPH, RCRA Metals, TCLP lead
Areal-D12-14	BSD0135-08	Soil	VOCs, TPH, RCRA Metals, TCLP lead
Areal-D13-14	BSD0135-09	Soil	VOCs, TPH, RCRA Metals
Areal-D14-14	BSD0135-10	Soil	VOCs, TPH, RCRA Metals
Areal-E12-14	BSD0135-11	Soil	VOCs, TPH, RCRA Metals, TCLP lead
DUP-4 (Duplicate of Areal-D11-14)	BSD0135-12	Soil	VOCs, TPH, RCRA Metals, TCLP lead
Areal-B13-10	BSD0135-13	Soil	VOCs, TPH, RCRA Metals
Areal-B14-9	BSD0135-14	Soil	VOCs, TPH, RCRA Metals
Areal-J11-9	BSD0147-01	Soil	VOCs, TPH, Total Lead
Areal-J12-9	BSD0147-02	Soil	VOCs, TPH, Total Lead
Areal-J13-9	BSD0147-03	Soil	VOCs, TPH, Total Lead
Areal-J14-9	BSD0147-04	Soil	VOCs, TPH, Total Lead
Areal-J15-9	BSD0147-05	Soil	VOCs, TPH, Total Lead
Areal-H12-9	BSD0158-01	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-I15-9	BSD0158-02	Soil	VOCs, TPH, Total Lead
Areal-B10-14	BSD0158-03	Soil	VOCs, TPH, Total Lead
Areal-C10-14	BSD0158-04	Soil	VOCs, TPH, Total Lead
Areal-C11-14	BSD0158-05	Soil	VOCs, TPH, Total Lead
Areal-F12-9	BSD0158-06	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-E11-9	BSD0158-07	Soil	VOCs, TPH, Total Lead
Areal-D11-9	BSD0158-08	Soil	VOCs, TPH, Total Lead
DUP-5 (Duplicate of Areal-D11-9)	BSD0158-09	Soil	VOCs, TPH, Total Lead
Areal-H15-9	BSD0158-10	Soil	VOCs, TPH, Total Lead
Areal-G15-9	BSD0158-11	Soil	VOCs, TPH, Total Lead
Areal-F15-9	BSD0158-12	Soil	VOCs, TPH, Total Lead
I-041509	BSD0162-01	Water	VOCs, TPH, Total Lead
M-041509	BSD0162-02	Water	VOCs, TPH, Total Lead
E01-041509	BSD0162-03	Water	VOCs, TPH, Total Lead
E02-041509	BSD0162-04	Water	VOCs, TPH, Total Lead
E03-041509	BSD0162-05	Water	VOCs, TPH, Total Lead
Areal-B14-7	BSD0176-01	Soil	VOCs, TPH, Total Lead
Areal-C13-9	BSD0176-02	Soil	VOCs, TPH, Total Lead
Areal-C12-9	BSD0176-03	Soil	VOCs, TPH, Total Lead
Areal-C9-14	BSD0176-04	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-C8-14	BSD0176-05	Soil	VOCs, TPH, Total Lead
Areal-C7-14	BSD0176-06	Soil	VOCs, TPH, Total Lead

Table 1
Laboratory Sample Cross-Reference

Sample ID	TA ID	Matrix	Requested Analysis
Areal-B9-14	BSD0176-07	Soil	VOCs, TPH, Total Lead
Areal-B8-14	BSD0176-08	Soil	VOCs, TPH, Total Lead
Areal-B7-14	BSD0176-09	Soil	VOCs, TPH, Total Lead
DUP-6 (Duplicate of Area1-C8-14)	BSD0176-10	Soil	VOCs, TPH, Total Lead
Areal-D7-14	BSD0176-11	Soil	VOCs, TPH, Total Lead
Areal-D8-14	BSD0176-12	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-D9-14	BSD0176-13	Soil	VOCs, TPH, Total Lead, TCLP lead
Area2-C10-9	BSD0209-01	Soil	VOCs, TPH, Total Lead
Areal-I14-9	BSD0209-02	Soil	VOCs, TPH, Total Lead
Areal-I13-9	BSD0209-03	Soil	VOCs, TPH, Total Lead
Areal-H14-9	BSD0209-04	Soil	VOCs, TPH, Total Lead
Areal-H13-9	BSD0209-05	Soil	VOCs, TPH, Total Lead
Areal-G8-14	BSD0209-06	Soil	VOCs, TPH, Total Lead
Areal-G9-14	BSD0209-07	Soil	VOCs, TPH, Total Lead
Areal-G13-9	BSD0221-01	Soil	VOCs, TPH, Total Lead
Areal-G12-9	BSD0221-02	Soil	VOCs, TPH, Total Lead
Area2-F4-14	BSD0221-03	Soil	VOCs, TPH, Total Lead
Areal-F13-9	BSD0221-04	Soil	VOCs, TPH, Total Lead
Areal-F12-7	BSD0221-05	Soil	VOCs, TPH, Total Lead
Areal-C13-6	BSD0221-06	Soil	VOCs, TPH, Total Lead
Areal-D12-9	BSD0221-07	Soil	VOCs, TPH, Total Lead
Areal-E12-9	BSD0221-08	Soil	VOCs, TPH, Total Lead
CI-TK1	BSD0222-01	Water	VOCs, TPH, HCID, Metals
Areal-A9-14	BSD0232-01	Soil	VOCs, TPH, Total Lead
Areal-A8-14	BSD0232-02	Soil	VOCs, TPH, Total Lead
Areal-A7-14	BSD0232-03	Soil	VOCs, TPH, Total Lead
Areal-A6-14	BSD0232-04	Soil	VOCs, TPH, Total Lead
Areal-A5-14	BSD0232-05	Soil	VOCs, TPH, Total Lead
Areal-A4-14	BSD0232-06	Soil	VOCs, TPH, Total Lead
DUP-8 (Duplicate of Area1-A4-14)	BSD0232-07	Soil	VOCs, TPH, Total Lead
Areal-F11-9	BSD0232-09	Soil	VOCs, TPH, Total Lead
Areal-E11-7	BSD0232-10	Soil	VOCs, TPH, Total Lead
Area-1-D12-6	BSD0249-01	Soil	VOCs, TPH, Total Lead
Areal-B6-14	BSD0249-02	Soil	VOCs, TPH, Total Lead
Areal-C6-14	BSD0249-03	Soil	VOCs, TPH, Total Lead
Areal-D6-14	BSD0249-04	Soil	VOCs, TPH, Total Lead
DUP-9 (Duplicate of Area1-B6-14)	BSD0249-05	Soil	VOCs, TPH, Total Lead
Areal-F13-6	BSD0249-06	Soil	VOCs, TPH, Total Lead
Amazon Lot 34-12	BSD0250-01	Soil	VOCs, TPH, PAHs, RCRA Metals
I-042309	BSD0261-01	Water	VOCs, TPH, Total Lead
M-042309	BSD0261-02	Water	VOCs, TPH, Total Lead
E01-042309	BSD0261-03	Water	VOCs, TPH, Total Lead
E02-042309	BSD0261-04	Water	VOCs, TPH, Total Lead
E03-042309	BSD0261-05	Water	VOCs, TPH, Total Lead
Areal-B4-14	BSD0275-01	Soil	VOCs, TPH, Total Lead
Areal-B5-14	BSD0275-02	Soil	VOCs, TPH, Total Lead
Areal-C4-14	BSD0275-03	Soil	VOCs, TPH, Total Lead
Areal-C5-14	BSD0275-04	Soil	VOCs, TPH, Total Lead
Areal-D4-14	BSD0275-05	Soil	VOCs, TPH, Total Lead
Areal-D5-14	BSD0275-06	Soil	VOCs, TPH, Total Lead
Areal-E4-14	BSD0275-07	Soil	VOCs, TPH, Total Lead
Areal-E5-14	BSD0275-08	Soil	VOCs, TPH, Total Lead
DUP-10 (Duplicate of Area1-D5-14)	BSD0275-09	Soil	VOCs, TPH, Total Lead
Areal-F4-14	BSD0286-01	Soil	VOCs, TPH, Total Lead
Areal-F5-14	BSD0286-02	Soil	VOCs, TPH, Total Lead
Areal-G4-14	BSD0286-03	Soil	VOCs, TPH, Total Lead
Areal-G5-14	BSD0286-04	Soil	VOCs, TPH, Total Lead

Table 1
Laboratory Sample Cross-Reference

Sample ID	TA ID	Matrix	Requested Analysis
Areal-H4-14	BSD0286-05	Soil	VOCs, TPH, Total Lead
Areal-H5-14	BSD0286-06	Soil	VOCs, TPH, Total Lead
DUP-11 (Duplicate of Area1-H5-14)	BSD0286-07	Soil	VOCs, TPH, Total Lead
Amazon Lot 34-13	BSD0301-01	Soil	VOCs, TPH, PAHs, RCRA Metals
Areal-A2-14	BSD0302-01	Soil	VOCs, TPH, Total Lead
Areal-A3-14	BSD0302-02	Soil	VOCs, TPH, Total Lead
Areal-B2-14	BSD0302-03	Soil	VOCs, TPH, Total Lead
Areal-B3-14	BSD0302-04	Soil	VOCs, TPH, Total Lead
Areal-C2-14	BSD0302-05	Soil	VOCs, TPH, Total Lead
Areal-C3-14	BSD0302-06	Soil	VOCs, TPH, Total Lead
Areal-D2-14	BSD0302-07	Soil	VOCs, TPH, Total Lead
Areal-D3-14	BSD0302-08	Soil	VOCs, TPH, Total Lead
Areal-H12-12	BSD0302-09	Soil	VOCs, TPH, Total Lead
Areal-H12-7	BSD0302-10	Soil	VOCs, TPH, Total Lead
Areal-H11-12	BSD0302-11	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-H11-9	BSD0302-12	Soil	VOCs, TPH, Total Lead
Areal-D11-12	BSD0302-13	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-D9-9	BSD0302-14	Soil	VOCs, TPH, Total Lead
Areal-D9-12	BSD0302-15	Soil	VOCs, TPH, Total Lead
Areal-B4-9	BSD0323-01	Soil	VOCs, TPH, Total Lead
Areal-C5-7	BSD0323-03	Soil	VOCs, TPH, Total Lead
Areal-D5-9	BSD0323-04	Soil	VOCs, TPH, Total Lead
Areal-E4-9	BSD0323-05	Soil	VOCs, TPH, Total Lead
Areal-E2-14	BSD0323-06	Soil	VOCs, TPH, Total Lead
Areal-E3-14	BSD0323-07	Soil	VOCs, TPH, Total Lead
Areal-F2-14	BSD0323-08	Soil	VOCs, TPH, Total Lead
Areal-F3-14	BSD0323-09	Soil	VOCs, TPH, Total Lead
Areal-G2-14	BSD0323-10	Soil	VOCs, TPH, Total Lead
Areal-G3-14	BSD0323-11	Soil	VOCs, TPH, Total Lead, TCLP lead
DUP-12 (Duplicate of Area1-G3-14)	BSD0323-12	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-D9-7	BSD0337-01	Soil	VOCs, TPH, Total Lead, TCLP lead
Areal-B3-9	BSD0337-02	Soil	VOCs, TPH, Total Lead
Areal-H2-14	BSD0337-03	Soil	VOCs, TPH, Total Lead
Areal-H3-14	BSD0337-04	Soil	VOCs, TPH, Total Lead
Areal-I2-14	BSD0337-05	Soil	VOCs, TPH, Total Lead
Areal-I3-14	BSD0337-06	Soil	VOCs, TPH, Total Lead
Areal-I4-14	BSE0016-01	Soil	VOCs, TPH, Total Lead
Areal-I5-14	BSE0016-02	Soil	VOCs, TPH, Total Lead
Areal-J2-14	BSE0016-03	Soil	VOCs, TPH, Total Lead
Areal-J3-14	BSE0016-04	Soil	VOCs, TPH, Total Lead
Areal-J4-14	BSE0016-05	Soil	VOCs, TPH, Total Lead
Areal-J5-14	BSE0016-06	Soil	VOCs, TPH, Total Lead
Areal-K2-14	BSE0016-07	Soil	VOCs, TPH, Total Lead
Areal-K3-14	BSE0016-08	Soil	VOCs, TPH, Total Lead
Areal-H8-7	BSE0016-09	Soil	VOCs, TPH, Total Lead
Areal-H9-7	BSE0016-10	Soil	VOCs, TPH, Total Lead
DUP-13 (Duplicate of Area2-J2-14)	BSE0016-11	Soil	VOCs, TPH, Total Lead
Areal-H6-7	BSE0016-12	Soil	VOCs, TPH, Total Lead
Areal-H5-7	BSE0016-13	Soil	VOCs, TPH, Total Lead
Amazon Lot 34-14	BSE0018-01	Soil	VOCs, TPH, PAHs, RCRA Metals
Areal-C1-14	BSE0033-01	Soil	VOCs, TPH, Total Lead
Areal-C1-9	BSE0033-02	Soil	VOCs, TPH, Total Lead
Areal-D1-14	BSE0033-03	Soil	VOCs, TPH, Total Lead
Areal-D1-9	BSE0033-04	Soil	VOCs, TPH, Total Lead
Areal-E1-14	BSE0033-05	Soil	VOCs, TPH, Total Lead
Areal-E1-9	BSE0033-06	Soil	VOCs, TPH, Total Lead
Areal-F1-14	BSE0033-07	Soil	VOCs, TPH, Total Lead

Table 1
Laboratory Sample Cross-Reference

Sample ID	TA ID	Matrix	Requested Analysis
Areal-F1-9	BSE0033-08	Soil	VOCs, TPH, Total Lead
Areal-G1-14	BSE0033-09	Soil	VOCs, TPH, Total Lead
Areal-G1-9	BSE0033-10	Soil	VOCs, TPH, Total Lead
Areal-H1-14	BSE0033-11	Soil	VOCs, TPH, Total Lead
Areal-H1-9	BSE0033-12	Soil	VOCs, TPH, Total Lead
DUP-14 (Duplicate of Areal-D1-14)	BSE0033-13	Soil	VOCs, TPH, Total Lead
Areal-D9-1.5	BSE0033-14	Soil	VOCs, TPH, Total Lead
Areal-D8-2	BSE0033-15	Soil	VOCs, TPH, Total Lead
Areal-B3-7	BSE0033-16	Soil	VOCs, TPH, Total Lead
Areal-K4-14	BSE0050-01	Soil	VOCs, TPH, Total Lead
Areal-K5-14	BSE0050-02	Soil	VOCs, TPH, Total Lead
I-050509	BSE0056-01	Water	VOCs, TPH, Total Lead
M-050509	BSE0056-02	Water	VOCs, TPH, Total Lead
E01-050509	BSE0056-03	Water	VOCs, TPH, Total Lead
E02-050509	BSE0056-04	Water	VOCs, TPH, Total Lead
E03-050509	BSE0056-05	Water	VOCs, TPH, Total Lead
Amazon Lot 34-15	BSE0064-01	Soil	VOCs, TPH, PAHs, RCRA Metals
Amazon Lot 34-16	BSE0081-01	Soil	VOCs, TPH, PAHs, RCRA Metals
ICON-POS-1	BSE0094-01	Soil	VOCs, TPH, PAH, PCBs, RCRA Metals, TCLP Lead
ICON-POS-2	BSE0094-02	Soil	VOCs, TPH, PAH, PCBs, RCRA Metals, TCLP Lead
ICON-POS-3	BSE0094-03	Soil	VOCs, TPH, PAH, PCBs, RCRA Metals, TCLP Lead
ICON-POS-4	BSE0094-04	Soil	VOCs, TPH, PAH, PCBs, RCRA Metals, TCLP Lead
ICON-POS-5	BSE0094-05	Soil	VOCs, TPH, PAH, PCBs, RCRA Metals, TCLP Lead
ICON-POS-6	BSE0094-06	Soil	VOCs, TPH, PAH, RCRA Metals
ICON-POS-7	BSE0094-07	Soil	VOCs, TPH, PAH, RCRA Metals
ICON-POS-8	BSE0094-08	Soil	VOCs, TPH, PAH, RCRA Metals
Areal-E10-9	BSE0105-01	Soil	VOCs, TPH, Total Lead
Areal-F10-9	BSE0105-02	Soil	VOCs, TPH, Total Lead
Areal-G10-7	BSE0105-03	Soil	VOCs, TPH, Total Lead
Areal-E9-7	BSE0116-01	Soil	VOCs, TPH, Total Lead
Areal-F9-7	BSE0116-02	Soil	VOCs, TPH, Total Lead
Areal-G9-7	BSE0116-03	Soil	VOCs, TPH, Total Lead
Areal-F8-7	BSE0116-04	Soil	VOCs, TPH, Total Lead
Areal-G8-7	BSE0116-05	Soil	VOCs, TPH, Total Lead
Areal-C1-4	BSE0156-01	Soil	VOCs, TPH, Total Lead
Areal-D1-7	BSE0156-02	Soil	VOCs, TPH, Total Lead
Areal-D1-4	BSE0156-03	Soil	VOCs, TPH, Total Lead
Areal-E1-7	BSE0174-01	Soil	VOCs, TPH, Total Lead
Areal-E1-4	BSE0174-02	Soil	VOCs, TPH, Total Lead
Areal-F1-7	BSE0174-03	Soil	VOCs, TPH, Total Lead
Areal-H1-4	BSE0200-01	Soil	VOCs, TPH, Total Lead
Amazon Lot 34-18	BSE0201-01	Soil	VOCs, TPH, PAHs, RCRA Metals
Areal-G1-4	BSE0210-01	Soil	VOCs, TPH, Total Lead
I-052009	BSE0211-01	Water	BTEX, TPH
M-052009	BSE0211-02	Water	BTEX, TPH
E01-052009	BSE0211-03	Water	BTEX, TPH
E02-052009	BSE0211-04	Water	TPH
E03-052009	BSE0211-05	Water	TPH
Amazon Lot 34-19	BSE0211-06	Soil	VOCs, TPH, PAHs, RCRA Metals
Areal-G2-6	BSE0225-01	Soil	VOCs, TPH, Total Lead
Areal-G3-7	BSE0225-02	Soil	VOCs, TPH, Total Lead
Areal-F1-4	BSE0242-01	Soil	VOCs, TPH, Total Lead
Areal-I1-14	BSE0272-01	Soil	VOCs, TPH, Total Lead
Areal-I1-9	BSE0272-02	Soil	VOCs, TPH, Total Lead
Areal-I2-4	BSE0272-03	Soil	VOCs, TPH, Total Lead
Areal-I4-9	BSE0272-04	Soil	VOCs, TPH, Total Lead
Areal-I4-7	BSE0272-05	Soil	VOCs, TPH, Total Lead

Table 1
Laboratory Sample Cross-Reference

Sample ID	TA ID	Matrix	Requested Analysis
Area1-I4-4	BSE0272-06	Soil	VOCs, TPH, Total Lead
Area1-J1-14	BSE0272-07	Soil	VOCs, TPH, Total Lead
Area1-J1-9	BSE0272-08	Soil	VOCs, TPH, Total Lead
Area1-J2-9	BSE0272-09	Soil	VOCs, TPH, Total Lead
Area1-J2-7	BSE0272-10	Soil	VOCs, TPH, Total Lead
Area1-J2-4	BSE0272-11	Soil	VOCs, TPH, Total Lead
Area2-J3-14	BSE0281-01	Soil	VOCs, TPH, Total Lead
Area2-J4-14	BSE0281-02	Soil	VOCs, TPH, Total Lead
Area2-I3-14	BSE0281-03	Soil	VOCs, TPH, Total Lead
Area2-I4-14	BSE0281-04	Soil	VOCs, TPH, Total Lead
Area2-H3-14	BSE0281-05	Soil	VOCs, TPH, Total Lead
Area2-H4-14	BSE0281-06	Soil	VOCs, TPH, Total Lead
Area2-G3-14	BSE0281-07	Soil	VOCs, TPH, Total Lead
Area2-G4-14	BSE0281-08	Soil	VOCs, TPH, Total Lead
Area2-F3-14	BSE0281-09	Soil	VOCs, TPH, Total Lead
DUP-15 (Duplicate of Area2-F3-14)	BSE0281-10	Soil	VOCs, TPH, Total Lead
Area1-K1-14	BSF0014-01	Soil	VOCs, TPH, Total Lead
Area1-K1-9	BSF0014-02	Soil	VOCs, TPH, Total Lead
Area1-K4-9	BSF0014-03	Soil	VOCs, TPH, Total Lead
Area1-K2-9	BSF0014-04	Soil	VOCs, TPH, Total Lead
DUP-16 (Duplicate of Area1-K1-14)	BSF0014-05	Soil	VOCs, TPH, Total Lead
Area2-J2-14	BSF0014-06	Soil	VOCs, TPH, Total Lead
Amazon Lot 34-20	BSF0015-01	Soil	VOCs, TPH, PAHs, RCRA Metals
Area2-I2-14	BSF0023-01	Soil	VOCs, TPH, Total Lead
Area2-H2-14	BSF0023-02	Soil	VOCs, TPH, Total Lead
Area2-G2-14	BSF0023-03	Soil	VOCs, TPH, Total Lead
Area2-F2-14	BSF0023-04	Soil	VOCs, TPH, Total Lead
Area1-J5-9	BSF0033-01	Soil	VOCs, TPH, Total Lead
Area2-K1-14	BSF0033-02	Soil	VOCs, TPH, Total Lead
Area2-K1-11.5	BSF0033-03	Soil	VOCs, TPH, Total Lead
Area2-K2-14	BSF0033-04	Soil	VOCs, TPH, Total Lead
Area2-K2-12	BSF0033-05	Soil	VOCs, TPH, Total Lead
Area2-K3-14	BSF0033-06	Soil	VOCs, TPH, Total Lead
Area2-K3-12	BSF0033-07	Soil	VOCs, TPH, Total Lead
Area2-K4-14	BSF0033-08	Soil	VOCs, TPH, Total Lead
Area2-K4-12	BSF0033-09	Soil	VOCs, TPH, Total Lead
DUP-17 (Duplicate of Area2-I1-14)	BSF0033-10	Soil	VOCs, TPH, Total Lead
Area2-I1-14	BSF0033-11	Soil	VOCs, TPH, Total Lead
Area2-I1-11	BSF0033-12	Soil	VOCs, TPH, Total Lead
Area2-J1-14	BSF0033-13	Soil	VOCs, TPH, Total Lead
Area2-G1-14	BSF0041-01	Soil	VOCs, TPH, Total Lead
Area2-G1-10	BSF0041-02	Soil	VOCs, TPH, Total Lead
Area2-H1-14	BSF0041-03	Soil	VOCs, TPH, Total Lead
Area2-H1-11.5	BSF0041-04	Soil	VOCs, TPH, Total Lead
Area2-F1-14	BSF0041-05	Soil	VOCs, TPH, Total Lead
Area2-F1-11.5	BSF0041-06	Soil	VOCs, TPH, Total Lead
DUP-18 (Duplicate of Area2-H1-14)	BSF0041-07	Soil	VOCs, TPH, Total Lead
Area2-E1-14	BSF0041-08	Soil	VOCs, TPH, Total Lead
Area2-E1-12	BSF0041-09	Soil	VOCs, TPH, Total Lead
Area2-D1-14	BSF0041-10	Soil	VOCs, TPH, Total Lead
Area2-D1-12	BSF0041-11	Soil	VOCs, TPH, Total Lead
Area2-E2-14	BSF0041-12	Soil	VOCs, TPH, Total Lead
Area2-E3-14	BSF0041-13	Soil	VOCs, TPH, Total Lead
Area2-E4-14	BSF0041-14	Soil	VOCs, TPH, Total Lead
Area2-D2-14	BSF0041-15	Soil	VOCs, TPH, Total Lead
Area2-C1-14	BSF0055-01	Soil	VOCs, TPH, Total Lead
Area2-C1-11	BSF0055-02	Soil	VOCs, TPH, Total Lead

Table 1
Laboratory Sample Cross-Reference

Sample ID	TA ID	Matrix	Requested Analysis
Area2-B1-14	BSF0055-03	Soil	VOCs, TPH, Total Lead
Area2-B1-11	BSF0055-04	Soil	VOCs, TPH, Total Lead
Area2-A1-14	BSF0055-05	Soil	VOCs, TPH, Total Lead
Area2-A2-14	BSF0080-01	Soil	VOCs, TPH, Total Lead
Area2-A3-14	BSF0080-02	Soil	VOCs, TPH, Total Lead
Area2-B2-14	BSF0080-03	Soil	VOCs, TPH, Total Lead
Area2-C2-14	BSF0080-04	Soil	VOCs, TPH, Total Lead
DUP-19 (Duplicate of Area2-B2-14)	BSF0080-05	Soil	VOCs, TPH, Total Lead
Area2-E4-11	BSF0089-01	Soil	VOCs, TPH, Total Lead
Area2-F3-11.5	BSF0089-02	Soil	VOCs, TPH, Total Lead
Area2-F4-10.5	BSF0089-03	Soil	VOCs, TPH, Total Lead
Area2-F1-9	BSF0089-04	Soil	VOCs, TPH, Total Lead
Area2-G2-11	BSF0089-05	Soil	VOCs, TPH, Total Lead
Area2-G3-11	BSF0089-06	Soil	VOCs, TPH, Total Lead
Area2-H4-11	BSF0089-07	Soil	VOCs, TPH, Total Lead
Area2-B2-9	BSF0112-01	Soil	VOCs, TPH, Total Lead
Area2-C3-14	BSF0112-02	Soil	VOCs, TPH, Total Lead
Area2-B3-14	BSF0112-03	Soil	VOCs, TPH, Total Lead
Area2-B4-14	BSF0112-04	Soil	VOCs, TPH, Total Lead
Area2-A4-14	BSF0112-05	Soil	VOCs, TPH, Total Lead
Area2-A5-14	BSF0112-06	Soil	VOCs, TPH, Total Lead
Area2-C4-14	BSF0112-07	Soil	VOCs, TPH, Total Lead
Area2-D3-14	BSF0112-08	Soil	VOCs, TPH, Total Lead
Area2-D4-14	BSF0112-09	Soil	VOCs, TPH, Total Lead
DUP-20 (Duplicate of Area2-C4-14)	BSF0112-10	Soil	VOCs, TPH, Total Lead
Area1-B3-4	BSF0125-01	Soil	Total lead
Area2-A5-11	BSF0137-01	Soil	Lead
Area2-A5-9	BSF0137-02	Soil	Lead
Area1-B14-2	BSF0180-01	Soil	VOCs, TPH, Total Lead
Amazon Lot 34-21	BSF0181-01	Soil	VOCs, TPH, PAHs, RCRA Metals
I-061209	580-13985-1	Water	VOCs, TPH
M-061209	580-13985-2	Water	VOCs, TPH
E01-061209	580-13985-3	Water	VOCs, TPH
E02-061209	580-13985-4	Water	TPH
E03-061209	580-13985-5	Water	TPH

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
COP-T1-W	BSA0265-03	Diesel Range Hydrocarbons	99.5	99.5 J	mg/l
COP-T1-W	BSA0265-03	Lube Oil Range Hydrocarbons	30.6	30.6 J	mg/l
COP-T2-N	BSB0004-02	Diesel Range Hydrocarbons	172	172 J	mg/kg
COP-T2-N	BSB0004-02	Lube Oil Range Hydrocarbons	371	371 J	mg/kg
COP-T2-W	BSB0014-01	Diesel Range Hydrocarbons	21.4	21.4 J	mg/l
COP-T2-W	BSB0014-01	Lube Oil Range Hydrocarbons	2.49	2.49 J	mg/l
COP-T1-2-Oil	BSB0073-01	Lube Oil	153000	153000 J	mg/kg
COP-T1-2-Oil	BSB0073-01	Diesel Range Hydrocarbons	228000	228000 J	mg/kg
COP-T1-2-Oil	BSB0073-01	Bunker C	595000	595000 J	mg/kg
Area2-I5-14	BSC0199-01	Lead	69.2	69.2 J	mg/kg
Area2-I6-14	BSC0199-02	Lead	32.7	32.7 J	mg/kg
Area2-I7-14	BSC0199-03	Lead	11.6	11.6 J	mg/kg
Area2-I8-14	BSC0199-04	Lead	242	242 J	mg/kg
Area2-I9-14	BSC0199-05	Lead	212	212 J	mg/kg
Area2-J8-14	BSC0199-06	Gasoline Range Hydrocarbons	18.2	18.2 J	mg/kg
Area2-J8-14	BSC0199-06	Lead	298	298 J	mg/kg
Area2-J7-14	BSC0199-07	Lead	192	192 J	mg/kg
Area2-J7-14	BSC0199-07	Gasoline Range Hydrocarbons	84.4	84.4 J	mg/kg
Area2-J6-14	BSC0199-08	Lead	6.76	6.76 J	mg/kg
Area2-H9-14	BSC0199-09	Lead	15.4	15.4 J	mg/kg
Area2-H9-14	BSC0199-09	Gasoline Range Hydrocarbons	139	139 J	mg/kg
Area2-H5-14	BSC0199-10	Lead	59.6	59.6 J	mg/kg
Area2-H5-14	BSC0199-10	Benzene	0.298	0.298 J	mg/kg
Area2-H5-14	BSC0199-10	Ethylbenzene	0.784	0.784 J	mg/kg
Area2-H5-14	BSC0199-10	Toluene	0.453	0.453 J	mg/kg
Area2-H5-14	BSC0199-10	o-Xylene	0.642	0.642 J	mg/kg
Area2-H5-14	BSC0199-10	m,p-Xylene	2.16	2.16 J	mg/kg
Area2-H5-14	BSC0199-10	Total Xylenes	2.80	2.80 J	mg/kg
Area2-H5-14	BSC0199-10	Gasoline Range Hydrocarbons	51.0	51.0 J	mg/kg
DUP -1	BSC0199-11	Lead	30.0	30.0 J	mg/kg
DUP -1	BSC0199-11	Benzene	0.703	0.703 J	mg/kg
DUP -1	BSC0199-11	Ethylbenzene	2.98	2.98 J	mg/kg
DUP -1	BSC0199-11	Toluene	2.08	2.08 J	mg/kg
DUP -1	BSC0199-11	o-Xylene	2.57	2.57 J	mg/kg
DUP -1	BSC0199-11	m,p-Xylene	8.34	8.34 J	mg/kg
DUP -1	BSC0199-11	Total Xylenes	10.9	10.9 J	mg/kg
DUP -1	BSC0199-11	Gasoline Range Hydrocarbons	172	172 J	mg/kg
Area2-K5-14	BSC0225-01	Ethylbenzene	632 E	632 J	ug/kg
Area2-K5-14	BSC0225-01	o-Xylene	520 E	520 J	ug/kg
Area2-K5-14	BSC0225-01	m,p-Xylene	1,060 E	1060 J	ug/kg
Area2-K5-14	BSC0225-01	Total Xylenes	1,580 E	1580 J	ug/kg
Area2-K5-14	BSC0225-01	Gasoline Range Hydrocarbons	56.2	56.2 J	mg/kg
Area2-K5-14	BSC0225-01	Benzene	6.30	6.30 DNR	ug/kg
Area2-K5-14	BSC0225-01	Ethylbenzene	38.8	38.8 DNR	ug/kg
Area2-K5-14	BSC0225-01	Toluene	27.5	27.5 DNR	ug/kg
Area2-K5-14	BSC0225-01	o-Xylene	52.9	52.9 DNR	ug/kg
Area2-K5-14	BSC0225-01	m,p-Xylene	138	138 DNR	ug/kg
Area2-K5-14	BSC0225-01	Total Xylenes	191	191 DNR	ug/kg
Area2-H10-14	BSC0232-02	Benzene	0.00377 U	0.00377 UJ	mg/kg
Area2-H10-14	BSC0232-02	Methyl tert-butyl ether	0.0123	0.0123 J	mg/kg
Area2-I10-14	BSC0232-04	Gasoline Range Hydrocarbons	111	111 J	mg/kg
Area2-G10-14	BSC0232-05	Gasoline Range Hydrocarbons	181	181 J	mg/kg
Area2-J5-14	BSC0245-01	Lead	52.3	52.3 J	mg/kg
Area2-I9-14	BSC0245-02	Lead	91.1	91.1 J	mg/kg
Area2-I9-14	BSC0245-02	Gasoline Range Hydrocarbons	609	609 J	mg/kg
Area2-H6-14	BSC0245-03	Lead	55.5	55.5 J	mg/kg
Area2-H6-14	BSC0245-03	Gasoline Range Hydrocarbons	245	245 J	mg/kg
Area2-H7-14	BSC0245-04	Lead	96.3	96.3 J	mg/kg
Area2-H7-14	BSC0245-04	Gasoline Range Hydrocarbons	214	214 J	mg/kg
Area2-H8-14	BSC0245-05	Lead	156	156 J	mg/kg
Area2-H8-14	BSC0245-05	Gasoline Range Hydrocarbons	528	528 J	mg/kg
Area2-G7-14	BSC0245-06	Lead	55.2	55.2 J	mg/kg
Area2-G7-14	BSC0245-06	Gasoline Range Hydrocarbons	145	145 J	mg/kg
Area2-G8-14	BSC0245-07	Lead	58.4	58.4 J	mg/kg
Area2-G8-14	BSC0245-07	Benzene	0.201	0.201 J	mg/kg
Area2-G8-14	BSC0245-07	Ethylbenzene	3.8	3.80 J	mg/kg
Area2-G8-14	BSC0245-07	Toluene	2.02	2.02 J	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Area2-G8-14	BSC0245-07	Xylenes (total)	165	165 J	mg/kg
Area2-G8-14	BSC0245-07	Gasoline Range Hydrocarbons	553	553 J	mg/kg
Area2-G9-14	BSC0245-08	Lube Oil	537	537 J	mg/kg
Area2-G9-14	BSC0245-08	Kerosene	170	170 J	mg/kg
Area2-G9-14	BSC0245-08	Diesel Range Hydrocarbons	289	289 J	mg/kg
Area2-G9-14	BSC0245-08	Lead	85.1	85.1 J	mg/kg
Area2-G9-14	BSC0245-08	Benzene	0.297	0.297 J	mg/kg
Area2-G9-14	BSC0245-08	Ethylbenzene	5.08	5.08 J	mg/kg
Area2-G9-14	BSC0245-08	Toluene	4.24	4.24 J	mg/kg
Area2-G9-14	BSC0245-08	Xylenes (total)	27.1	27.1 J	mg/kg
Area2-G9-14	BSC0245-08	Gasoline Range Hydrocarbons	895	895 J	mg/kg
Area2-G6-14	BSC0260-01	Lube Oil	228	228 DNR	mg/kg
Area2-G6-14	BSC0260-01	Kerosene	86.3	86.3 DNR	mg/kg
Area2-G6-14	BSC0260-01	Diesel Range Hydrocarbons	149	149 DNR	mg/kg
Area2-G6-14	BSC0260-01	Lube Oil	142	142 J	mg/kg
Area2-G6-14	BSC0260-01	Gasoline Range Hydrocarbons	306	306 J	mg/kg
Area2-G6-14	BSC0260-01	Benzene	0.468	0.468 J	mg/kg
Area2-G6-14	BSC0260-01	Ethylbenzene	1.79	1.79 J	mg/kg
Area2-G6-14	BSC0260-01	Toluene	3.4	3.40 J	mg/kg
Area2-G6-14	BSC0260-01	Xylenes (total)	13.5	13.5 J	mg/kg
Area2-G5-14	BSC0260-02	Lube Oil	74.7	74.7 DNR	mg/kg
Area2-G5-14	BSC0260-02	Kerosene	57.3	57.3 DNR	mg/kg
Area2-G5-14	BSC0260-02	Diesel Range Hydrocarbons	43.8	43.8 DNR	mg/kg
Area2-G5-14	BSC0260-02	Gasoline Range Hydrocarbons	1120	1120 J	mg/kg
Area2-G5-14	BSC0260-02	Benzene	2.73	2.73 J	mg/kg
Area2-G5-14	BSC0260-02	Ethylbenzene	11.7	11.7 J	mg/kg
Area2-G5-14	BSC0260-02	Toluene	14.9	14.9 J	mg/kg
Area2-G5-14	BSC0260-02	Xylenes (total)	49	49.0 J	mg/kg
Area2-F9-14	BSC0260-03	Lube Oil	32.6 U	32.6 U DNR	mg/kg
Area2-F9-14	BSC0260-03	Kerosene	13.0 U	13.0 U DNR	mg/kg
Area2-F9-14	BSC0260-03	Diesel Range Hydrocarbons	13.0 U	13.0 U DNR	mg/kg
Area2-F8-14	BSC0260-04	Lube Oil	81.6	81.6 DNR	mg/kg
Area2-F8-14	BSC0260-04	Kerosene	30.1	30.1 DNR	mg/kg
Area2-F8-14	BSC0260-04	Diesel Range Hydrocarbons	30.8	30.8 DNR	mg/kg
Area2-F8-14	BSC0260-04	Gasoline Range Hydrocarbons	183	183 J	mg/kg
Area2-F5-14	BSC0295-01	Lead	84.8	84.8 J	mg/kg
Area2-F5-14	BSC0295-01	Benzene	0.171	0.171 J	mg/kg
Area2-F5-14	BSC0295-01	Gasoline Range Hydrocarbons	267	267 J	mg/kg
Area2-F5-14	BSC0295-01	Ethylbenzene	1.95	1.95 J	mg/kg
Area2-F5-14	BSC0295-01	Toluene	0.906	0.906 J	mg/kg
Area2-F5-14	BSC0295-01	Xylenes (total)	7.58	7.58 J	mg/kg
Area2-F6-14	BSC0295-02	Lead	88.2	88.2 J	mg/kg
Area2-F6-14	BSC0295-02	Gasoline Range Hydrocarbons	290	290 J	mg/kg
Area2-F7-14	BSC0295-03	Lead	36.4	36.4 J	mg/kg
Area2-E9-14	BSC0295-04	Lead	63.5	63.5 J	mg/kg
Area2-E9-14	BSC0295-04	Methyl tert-butyl ether	0.00301 U	0.00301 UJ	mg/kg
Area2-E9-14	BSC0295-04	Gasoline Range Hydrocarbons	82.4	82.4 J	mg/kg
Area2-E8-14	BSC0295-05	Lead	48.5	48.5 J	mg/kg
Area2-E8-14	BSC0295-05	Gasoline Range Hydrocarbons	134	134 J	mg/kg
Area2-E7-14	BSC0295-06	Lead	92.2	92.2 J	mg/kg
Area2-E7-14	BSC0295-06	Methyl tert-butyl ether	0.00414 U	0.00414 UJ	mg/kg
Area2-E7-14	BSC0295-06	Gasoline Range Hydrocarbons	67.8	67.8 J	mg/kg
Area2-E6-14	BSC0295-07	Lead	86.4	86.4 J	mg/kg
Area2-E6-14	BSC0295-07	Methyl tert-butyl ether	0.00449 U	0.00449 UJ	mg/kg
Area2-E6-14	BSC0295-07	Naphthalene	0.0449 U	0.0449 UJ	mg/kg
Area2-E6-14	BSC0295-07	Benzene	0.648	0.648 J	mg/kg
Area2-F10-14	BSC0295-08	Lead	25.7	25.7 J	mg/kg
Area2-E10-14	BSC0295-09	Lead	100	100 J	mg/kg
Area2-E10-14	BSC0295-09	Benzene	0.00708 U	0.00708 UJ	mg/kg
Area2-E10-14	BSC0295-09	Gasoline Range Hydrocarbons	73.2	73.2 J	mg/kg
Area2-E5-14	BSC0295-10	Diesel Range Hydrocarbons	56.6	56.6 J	mg/kg
Area2-E5-14	BSC0295-10	Lead	21.1	21.1 J	mg/kg
Area2-E5-14	BSC0295-10	Benzene	0.0174	0.0174 J	mg/kg
Area2-E5-14	BSC0295-10	Ethylbenzene	0.122	0.122 J	mg/kg
Area2-E5-14	BSC0295-10	Naphthalene	0.0947	0.0947 J	mg/kg
Area2-E5-14	BSC0295-10	Toluene	0.0292	0.0292 J	mg/kg
Area2-E5-14	BSC0295-10	o-Xylene	0.781	0.781 J	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Area2-E5-14	BSC0295-10	m,p-Xylene	2.33	2.33 J	mg/kg
Area2-E5-14	BSC0295-10	Xylenes (total)	3.11	3.11 J	mg/kg
Area2-E5-14	BSC0295-10	Gasoline Range Hydrocarbons	90.5	90.5 J	mg/kg
Area2-D5-14	BSC0295-11	Lead	44.3	44.3 J	mg/kg
DUP-2	BSC0295-12	Diesel Range Hydrocarbons	16.2	16.2 J	mg/kg
DUP-2	BSC0295-12	Lead	30.7	30.7 J	mg/kg
DUP-2	BSC0295-12	Benzene	0.00514	0.00514 J	mg/kg
DUP-2	BSC0295-12	Ethylbenzene	0.0454	0.0454 J	mg/kg
DUP-2	BSC0295-12	Naphthalene	0.0499	0.0499 J	mg/kg
DUP-2	BSC0295-12	Toluene	0.00842	0.00842 J	mg/kg
DUP-2	BSC0295-12	o-Xylene	0.123	0.123 J	mg/kg
DUP-2	BSC0295-12	m,p-Xylene	0.256	0.256 J	mg/kg
DUP-2	BSC0295-12	Total Xylenes	0.379	0.379 J	mg/kg
DUP-2	BSC0295-12	Gasoline Range Hydrocarbons	53.0	53.0 J	mg/kg
Area2-D6-14	BSC0309-01	Gasoline Range Hydrocarbons	76.9	76.9 J	mg/kg
Area2-D7-14	BSC0309-02	Gasoline Range Hydrocarbons	117	117 J	mg/kg
Area2-F9-11.5	BSC0323-01	Lead	35.9	35.9 J	mg/kg
Area2-F9-11.5	BSC0323-01	Ethylbenzene	0.00738 U	0.00738 UJ	mg/kg
Area2-F9-11.5	BSC0323-01	Naphthalene	0.0185 U	0.0185 UJ	mg/kg
Area2-F9-11.5	BSC0323-01	Toluene	0.00277 U	0.00277 UJ	mg/kg
Area2-F8-10.5	BSC0323-02	Lead	1.27	1.27 J	mg/kg
Area2-F8-10.5	BSC0323-02	Ethylbenzene	0.00842 U	0.00842 UJ	mg/kg
Area2-F8-10.5	BSC0323-02	Naphthalene	0.0211 U	0.0211 UJ	mg/kg
Area2-F8-10.5	BSC0323-02	Toluene	0.00316 U	0.00316 UJ	mg/kg
Area2-E9-11.5	BSC0323-03	Lead	34.3	34.3 J	mg/kg
Area2-E9-11.5	BSC0323-03	Ethylbenzene	0.00598 U	0.00598 UJ	mg/kg
Area2-E9-11.5	BSC0323-03	Naphthalene	0.0149 U	0.0149 UJ	mg/kg
Area2-E8-11.5	BSC0323-04	Lead	9.67	9.67 J	mg/kg
Amazon Lot 34-6	BSC0324-01	Lead	2.45	2.45 J	mg/kg
Area2-F5-11	BSD0016-01	Ethylbenzene	0.00782 U	0.00782 UJ	mg/kg
Area2-F5-11	BSD0016-01	Naphthalene	0.0195 U	0.0195 UJ	mg/kg
Area2-F5-11	BSD0016-01	Toluene	0.00293 U	0.00293 UJ	mg/kg
Area2-F5-11	BSD0016-01	o-Xylene	0.00977 U	0.00977 UJ	mg/kg
Area2-F5-11	BSD0016-01	m,p-Xylene	0.00977 U	0.00977 UJ	mg/kg
Area2-F5-11	BSD0016-01	Total Xylenes	0.0195 U	0.0195 UJ	mg/kg
Area2-F6-12	BSD0016-02	Naphthalene	0.0376 U	0.0376 UJ	mg/kg
Area2-E5-11.5	BSD0016-03	Ethylbenzene	0.0119 U	0.0119 UJ	mg/kg
Area2-E5-11.5	BSD0016-03	Naphthalene	0.0297 U	0.0297 UJ	mg/kg
Area2-E5-11.5	BSD0016-03	Toluene	0.00445 U	0.00445 UJ	mg/kg
Area2-E5-11.5	BSD0016-03	o-Xylene	0.0148 U	0.0148 UJ	mg/kg
Area2-E5-11.5	BSD0016-03	m,p-Xylene	0.0148 U	0.0148 UJ	mg/kg
Area2-E5-11.5	BSD0016-03	Total Xylenes	0.0297 U	0.0297 UJ	mg/kg
Area2-E6-12	BSD0016-04	Ethylbenzene	0.0157 U	0.0157 UJ	mg/kg
Area2-E6-12	BSD0016-04	Naphthalene	0.0392 U	0.0392 UJ	mg/kg
Area2-E6-12	BSD0016-04	Toluene	0.00587 U	0.00587 UJ	mg/kg
Area2-E6-12	BSD0016-04	o-Xylene	0.0196 U	0.0196 UJ	mg/kg
Area2-E6-12	BSD0016-04	m,p-Xylene	0.0196 U	0.0196 UJ	mg/kg
Area2-E6-12	BSD0016-04	Total Xylenes	0.0392 U	0.0392 UJ	mg/kg
Area2-E7-11.5	BSD0016-05	Benzene	0.00456 U	0.00456 UJ	mg/kg
Area2-E7-11.5	BSD0016-05	Ethylbenzene	0.0122 U	0.0122 UJ	mg/kg
Area2-E7-11.5	BSD0016-05	Naphthalene	0.0304 U	0.0304 UJ	mg/kg
Area2-E7-11.5	BSD0016-05	Toluene	0.00456 U	0.00456 UJ	mg/kg
Area2-E7-11.5	BSD0016-05	o-Xylene	0.0152 U	0.0152 UJ	mg/kg
Area2-E7-11.5	BSD0016-05	m,p-Xylene	0.0152 U	0.0152 UJ	mg/kg
Area2-E7-11.5	BSD0016-05	Total Xylenes	0.0304 U	0.0304 UJ	mg/kg
Area1-B12-14	BSD0016-07	Ethylbenzene	0.0165 U	0.0165 UJ	mg/kg
Area1-B12-14	BSD0016-07	Naphthalene	0.0412 U	0.0412 UJ	mg/kg
Area1-B12-14	BSD0016-07	Toluene	0.00619 U	0.00619 UJ	mg/kg
Area1-B12-14	BSD0016-07	o-Xylene	0.0206 U	0.0206 UJ	mg/kg
Area1-B12-14	BSD0016-07	m,p-Xylene	0.0206 U	0.0206 UJ	mg/kg
Area1-B12-14	BSD0016-07	Total Xylenes	0.0412 U	0.0412 UJ	mg/kg
Area1-B13-14	BSD0016-08	Ethylbenzene	0.0163 U	0.0163 UJ	mg/kg
Area1-B13-14	BSD0016-08	o-Xylene	0.0203 U	0.0203 UJ	mg/kg
Area1-B13-14	BSD0016-08	m,p-Xylene	0.0203 U	0.0203 UJ	mg/kg
Area1-B13-14	BSD0016-08	Total Xylenes	0.0407 U	0.0407 UJ	mg/kg
Area1-B13-14	BSD0016-08	Gasoline Range Hydrocarbons	79.3	79.3 J	mg/kg
Area1-B14-14	BSD0016-09	Ethylbenzene	0.0139 U	0.0139 UJ	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Area1-B14-14	BSD0016-09	Gasoline Range Hydrocarbons	175	175 J	mg/kg
Area1-C13-14	BSD0016-10	Methyl tert-butyl ether	0.00240 U	0.00240 UJ	mg/kg
Area1-C13-14	BSD0016-10	Gasoline Range Hydrocarbons	186	186 J	mg/kg
Area1-C13-14	BSD0016-10	Ethylbenzene	2	2.00 J	mg/kg
Area1-C13-14	BSD0016-10	Toluene	0.78	0.780 J	mg/kg
Area1-C13-14	BSD0016-10	Xylenes (total)	8.83	8.83 J	mg/kg
Area1-C12-14	BSD0016-11	Ethylbenzene	0.0189 U	0.0189 UJ	mg/kg
Area1-C12-14	BSD0016-11	Naphthalene	0.0473 U	0.0473 UJ	mg/kg
Amazon Lot 34-7	BSD0035-01	Dichlorodifluoromethane	0.0917 U	0.0917 UJ	mg/kg
Amazon Lot 34-8	BSD0035-02	Dichlorodifluoromethane	0.107 U	0.107 UJ	mg/kg
Amazon Lot 34-9	BSD0035-03	Dichlorodifluoromethane	0.122 U	0.122 UJ	mg/kg
Area1-G10-14	BSD0036-01	Naphthalene	0.0386 U	0.0386 UJ	mg/kg
Area1-F10-14	BSD0036-02	Kerosene	674	674 J	mg/kg
Area1-F10-14	BSD0036-02	Diesel Range Hydrocarbons	2120	2120 J	mg/kg
Area1-F10-14	BSD0036-02	Naphthalene	0.0628 U	0.0628 UJ	mg/kg
Area1-F10-14	BSD0036-02	Ethylbenzene	0.0251 U	0.0251 UJ	mg/kg
Area1-F10-14	BSD0036-02	Toluene	0.00941 U	0.00941 UJ	mg/kg
Area1-F10-14	BSD0036-02	o-Xylene	0.0314 U	0.0314 UJ	mg/kg
Area1-F10-14	BSD0036-02	m,p-Xylene	0.0314 U	0.0314 UJ	mg/kg
Area1-F10-14	BSD0036-02	Total Xylenes	0.0628 U	0.0628 UJ	mg/kg
Area1-F10-14	BSD0036-02	Gasoline Range Hydrocarbons	23.6 J	23.6 J	mg/kg
Area1-F10-14	BSD0036-02	Lube Oil	2830	2830 J	mg/kg
Area1-H10-14	BSD0036-03	Gasoline Range Hydrocarbons	12.3 J	12.3 J	mg/kg
Area2-C9-14	BSD0036-04	Gasoline Range Hydrocarbons	32.8	32.8 J	mg/kg
Area2-C8-14	BSD0036-05	Naphthalene	0.0223 U	0.0223 UJ	mg/kg
Area2-C7-14	BSD0036-06	Naphthalene	0.0377 U	0.0377 UJ	mg/kg
Area2-C7-14	BSD0036-06	Ethylbenzene	0.0151 U	0.0151 UJ	mg/kg
Area2-C6-14	BSD0036-07	Naphthalene	0.0307 U	0.0307 UJ	mg/kg
Area2-C6-14	BSD0036-07	Gasoline Range Hydrocarbons	53.2	53.2 J	mg/kg
Area2-C5-14	BSD0053-01	Lead	62.3	62.3 J	mg/kg
Area2-B5-14	BSD0053-02	Diesel Range Hydrocarbons	70.2	70.2 J	mg/kg
Area2-B5-14	BSD0053-02	Lube Oil	338	338 J	mg/kg
Area2-B5-14	BSD0053-02	Lead	25.4	25.4 J	mg/kg
Area2-B6-14	BSD0053-03	Gasoline Range Hydrocarbons	37.8	37.8 J	mg/kg
Area2-B6-14	BSD0053-03	Lead	216	216 J	mg/kg
Area2-B7-14	BSD0053-04	Gasoline Range Hydrocarbons	41.4	41.4 J	mg/kg
Area2-B7-14	BSD0053-04	Lead	79.5	79.5 J	mg/kg
Area2-B8-14	BSD0053-05	Gasoline Range Hydrocarbons	61.5	61.5 J	mg/kg
Area2-B8-14	BSD0053-05	Lead	51.2	51.2 J	mg/kg
Area2-B9-14	BSD0053-06	Benzene	0.269	0.269 J	mg/kg
Area2-B9-14	BSD0053-06	Gasoline Range Hydrocarbons	95.6	95.6 J	mg/kg
Area2-B9-14	BSD0053-06	Lead	118	118 J	mg/kg
Area2-A6-14	BSD0053-07	Lead	289	289 J	mg/kg
Area2-A7-14	BSD0053-08	Lead	56.5	56.5 J	mg/kg
Area2-A8-14	BSD0053-09	Lead	136	136 J	mg/kg
Area2-A9-14	BSD0053-10	Lead	79.1	79.1 J	mg/kg
Area2-D5-11.5	BSD0053-11	Lead	106	106 J	mg/kg
Area2-D6-11.5	BSD0053-12	Lead	36.2	36.2 J	mg/kg
Area2-D7-11.5	BSD0053-13	Lead	42.1	42.1 J	mg/kg
Area2-D8-11.5	BSD0053-14	Lead	34.9	34.9 J	mg/kg
Area2-D9-11.5	BSD0053-15	Lead	57	57.0 J	mg/kg
Area1-K9-14	BSD0053-16	Gasoline Range Hydrocarbons	14.1	14.1 J	mg/kg
Area1-K9-14	BSD0053-16	Lead	386	386 J	mg/kg
Area1-K8-14	BSD0053-17	Lead	22.6	22.6 J	mg/kg
Area1-K7-14	BSD0053-18	Lead	8.81	8.81 J	mg/kg
Amazon Lot 34-10	BSD0054-01	Barium	42.7	42.7 J	mg/kg
Amazon Lot 34-10	BSD0054-01	Lead	2.92	2.92 J	mg/kg
Amazon Lot 34-10	BSD0054-01	Methylene Chloride	0.00698 U	0.00698 UJ	mg/kg
Area1-D15-14	BSD0065-10	Benzene	0.000965 U	0.000965 UJ	mg/kg
Area1-D15-14	BSD0065-10	Ethylbenzene	0.00257 U	0.00257 UJ	mg/kg
Area1-D15-14	BSD0065-10	Methyl tert-butyl ether	0.000643 U	0.000643 UJ	mg/kg
Area1-D15-14	BSD0065-10	Naphthalene	0.00643 U	0.00643 UJ	mg/kg
Area1-D15-14	BSD0065-10	Toluene	0.000965 U	0.000965 UJ	mg/kg
Area1-D15-14	BSD0065-10	o-Xylene	0.00322 U	0.00322 UJ	mg/kg
Area1-D15-14	BSD0065-10	m,p-Xylene	0.00322 U	0.00322 UJ	mg/kg
Area1-D15-14	BSD0065-10	Total Xylenes	0.00643 U	0.00643 UJ	mg/kg
Area1-J15-14	BSD0078-01	Methyl tert-butyl ether	0.00257 U	0.00257 UJ	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Area1-J15-14	BSD0078-01	Gasoline Range Hydrocarbons	57.1	57.1 J	mg/kg
Area1-J14-14	BSD0078-02	Gasoline Range Hydrocarbons	113	113 J	mg/kg
Area1-J12-14	BSD0078-03	Methyl tert-butyl ether	0.00259 U	0.00259 UJ	mg/kg
Area1-J12-14	BSD0078-03	Gasoline Range Hydrocarbons	266	266 J	mg/kg
Area1-J13-14	BSD0078-04	Gasoline Range Hydrocarbons	38.3 U	38.3 U DNR	mg/kg
Area1-J11-14	BSD0078-05	Gasoline Range Hydrocarbons	41.1 U	41.1 U DNR	mg/kg
Area2-C6-12	BSD0078-06	Ethylbenzene	0.0117 U	0.0117 UJ	mg/kg
Area2-C6-12	BSD0078-06	Naphthalene	0.0291 U	0.0291 UJ	mg/kg
Area2-C6-12	BSD0078-06	Toluene	0.00437 U	0.00437 UJ	mg/kg
Area2-C6-12	BSD0078-06	Gasoline Range Hydrocarbons	24.2 U	24.2 U DNR	mg/kg
Area2-C9-12	BSD0078-07	Naphthalene	0.0317 U	0.0317 UJ	mg/kg
Area2-C9-12	BSD0078-07	Gasoline Range Hydrocarbons	38.7 U	38.7 U DNR	mg/kg
Area2-B8-11.5	BSD0078-09	Benzene	0.00573 U	0.00573 UJ	mg/kg
Area2-B8-11.5	BSD0078-09	Ethylbenzene	0.0153 U	0.0153 UJ	mg/kg
Area2-B8-11.5	BSD0078-09	Naphthalene	0.0382 U	0.0382 UJ	mg/kg
Area2-B8-11.5	BSD0078-09	Toluene	0.00573 U	0.00573 UJ	mg/kg
Area2-B8-11.5	BSD0078-09	o-Xylene	0.0191 U	0.0191 UJ	mg/kg
Area2-B8-11.5	BSD0078-09	m,p-Xylene	0.0191 U	0.0191 UJ	mg/kg
Area2-B8-11.5	BSD0078-09	Total Xylenes	0.0382 U	0.0382 UJ	mg/kg
Area2-B8-11.5	BSD0078-09	Gasoline Range Hydrocarbons	35.7 U	35.7 U DNR	mg/kg
Area2-B7-11.5	BSD0078-10	Benzene	0.00322 U	0.00322 UJ	mg/kg
Area2-B7-11.5	BSD0078-10	Ethylbenzene	0.00858 U	0.00858 UJ	mg/kg
Area2-B7-11.5	BSD0078-10	Naphthalene	0.0215 U	0.0215 UJ	mg/kg
Area2-B7-11.5	BSD0078-10	o-Xylene	0.0107 U	0.0107 UJ	mg/kg
Area2-B7-11.5	BSD0078-10	m,p-Xylene	0.0107 U	0.0107 UJ	mg/kg
Area2-B7-11.5	BSD0078-10	Total Xylenes	0.0215 U	0.0215 UJ	mg/kg
Area2-B6-12.5	BSD0078-11	Ethylbenzene	0.0175 U	0.0175 UJ	mg/kg
Area2-B6-12.5	BSD0078-11	Naphthalene	0.0437 U	0.0437 UJ	mg/kg
Area2-B6-12.5	BSD0078-11	Toluene	0.00655 U	0.00655 UJ	mg/kg
Area2-B6-12.5	BSD0078-11	Gasoline Range Hydrocarbons	69.0	69.0 J	mg/kg
Area1-J10-14	BSD0078-12	Benzene	0.00104 U	0.00104 UJ	mg/kg
Area1-J10-14	BSD0078-12	Methyl tert-butyl ether	0.000696 U	0.000696 UJ	mg/kg
Area1-J10-14	BSD0078-12	Naphthalene	0.00696 U	0.00696 UJ	mg/kg
Area1-J10-14	BSD0078-12	Toluene	0.00104 U	0.00104 UJ	mg/kg
Area2-A6-11	BSD0092-01	Benzene	2.45 U	2.45 UJ	ug/kg
Area2-A6-11	BSD0092-01	Ethylbenzene	6.53 U	6.53 UJ	ug/kg
Area2-A6-11	BSD0092-01	Naphthalene	16.3 U	16.3 UJ	ug/kg
Area2-A6-11	BSD0092-01	Toluene	2.45 U	2.45 UJ	ug/kg
Area2-A6-11	BSD0092-01	o-Xylene	8.17 U	8.17 UJ	ug/kg
Area2-A6-11	BSD0092-01	m,p-Xylene	8.17 U	8.17 UJ	ug/kg
Area2-A6-11	BSD0092-01	Total Xylenes	16.3 U	16.3 UJ	ug/kg
Area2-A6-11	BSD0092-01	Gasoline Range Hydrocarbons	8.39 J	8.39 J	mg/kg
Area1-K10-14	BSD0092-02	Naphthalene	28.8 U	28.8 UJ	ug/kg
Area1-K10-14	BSD0092-02	Gasoline Range Hydrocarbons	46.5 U	46.5 U DNR	mg/kg
Area1-K9-11.5	BSD0092-03	Benzene	5.42 U	5.42 UJ	ug/kg
Area1-K9-11.5	BSD0092-03	Ethylbenzene	14.5 U	14.5 UJ	ug/kg
Area1-K9-11.5	BSD0092-03	Naphthalene	36.1 U	36.1 UJ	ug/kg
Area1-K9-11.5	BSD0092-03	Toluene	5.42 U	5.42 UJ	ug/kg
Area1-K9-11.5	BSD0092-03	o-Xylene	18.1 U	18.1 UJ	ug/kg
Area1-K9-11.5	BSD0092-03	m,p-Xylene	18.1 U	18.1 UJ	ug/kg
Area1-K9-11.5	BSD0092-03	Total Xylenes	36.1 U	36.1 UJ	ug/kg
Area1-K9-11.5	BSD0092-03	Gasoline Range Hydrocarbons	34.0 U	34.0 U DNR	mg/kg
Area1-K8-11.5	BSD0092-04	Naphthalene	40.7 U	40.7 UJ	ug/kg
Area1-K8-11.5	BSD0092-04	Gasoline Range Hydrocarbons	38.1 U	38.1 U DNR	mg/kg
Area1-K7-10.5	BSD0092-05	Ethylbenzene	6.97 U	6.97 UJ	ug/kg
Area1-K7-10.5	BSD0092-05	Naphthalene	17.4 U	17.4 UJ	ug/kg
Area1-K7-10.5	BSD0092-05	Toluene	2.61 U	2.61 UJ	ug/kg
Area1-K7-10.5	BSD0092-05	o-Xylene	8.72 U	8.72 UJ	ug/kg
Area1-K7-10.5	BSD0092-05	m,p-Xylene	8.72 U	8.72 UJ	ug/kg
Area1-K7-10.5	BSD0092-05	Total Xylenes	17.4 U	17.4 UJ	ug/kg
Area1-K6-10.5	BSD0092-06	Benzene	4.22 U	4.22 UJ	ug/kg
Area1-K6-10.5	BSD0092-06	Naphthalene	28.1 U	28.1 UJ	ug/kg
Area1-K6-10.5	BSD0092-06	Gasoline Range Hydrocarbons	39.8 U	39.8 U DNR	mg/kg
Area1-J7-14	BSD0092-08	Naphthalene	22.9 U	22.9 UJ	ug/kg
Area1-J8-14	BSD0092-09	Ethylbenzene	12.4 U	12.4 UJ	ug/kg
Area1-J8-14	BSD0092-09	Naphthalene	31.0 U	31.0 UJ	ug/kg
Area1-J8-14	BSD0092-09	Gasoline Range Hydrocarbons	39.1 U	39.1 U DNR	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Area1-J9-14	BSD0092-10	Gasoline Range Hydrocarbons	184	184 J	mg/kg
Area1-I8-14	BSD0092-13	Gasoline Range Hydrocarbons	7.35 J	7.35 J	mg/kg
Area1-I9-14	BSD0092-14	Benzene	5.82 U	5.82 UJ	ug/kg
Area1-I9-14	BSD0092-14	Methyl tert-butyl ether	3.88 U	3.88 UJ	ug/kg
Area1-I9-14	BSD0092-14	Gasoline Range Hydrocarbons	38.0 U	38.0 U DNR	mg/kg
Area1-I10-14	BSD0092-15	Methyl tert-butyl ether	2.90 U	2.90 UJ	ug/kg
Area1-I10-14	BSD0092-15	Benzene	4.16	4.16 J	mg/kg
Area1-I10-14	BSD0092-15	Ethylbenzene	11.7	11.7 J	mg/kg
Area1-I10-14	BSD0092-15	o-Xylene	1.70	1.70 J	mg/kg
Area1-I10-14	BSD0092-15	m,p-Xylene	8.10	8.10 J	mg/kg
Area1-I10-14	BSD0092-15	Xylenes (total)	9.8	9.80 J	mg/kg
Area1-I10-14	BSD0092-15	Gasoline Range Hydrocarbons	740	740 J	mg/kg
Area1-I10-14	BSD0092-15	Naphthalene	381	381 J	mg/kg
Area1-H8-14	BSD0092-16	Ethylbenzene	0.147 J	0.147 J	mg/kg
Area1-H8-14	BSD0092-16	Naphthalene	11.0 J	11.0 J	mg/kg
Area1-H8-14	BSD0092-16	Toluene	0.121 J	0.121 J	mg/kg
Area1-H8-14	BSD0092-16	m,p-Xylene	0.369 J	0.369 J	mg/kg
Area1-H8-14	BSD0092-16	Xylenes (total)	0.449 J	0.449 J	mg/kg
Area1-H8-14	BSD0092-16	Gasoline Range Hydrocarbons	204	204 J	mg/kg
Area1-H9-14	BSD0092-17	Methyl tert-butyl ether	0.596 U	0.596 UJ	ug/kg
Area1-H9-14	BSD0092-17	Ethylbenzene	0.0366 J	0.0366 J	mg/kg
Area1-H9-14	BSD0092-17	Toluene	0.103 J	0.103 J	mg/kg
Area1-H9-14	BSD0092-17	o-Xylene	0.0281 J	0.0281 J	mg/kg
Area1-H9-14	BSD0092-17	m,p-Xylene	0.148 J	0.148 J	mg/kg
Area1-H9-14	BSD0092-17	Xylenes (total)	0.176 J	0.176 J	mg/kg
Area1-H11-14	BSD0092-18	Methyl tert-butyl ether	2.43 U	2.43 UJ	ug/kg
Area1-H11-14	BSD0092-18	Toluene	0.709 J	0.709 J	mg/kg
Area1-H11-14	BSD0092-18	Gasoline Range Hydrocarbons	214	214 J	mg/kg
DUP-3	BSD0092-19	Benzene	157	157 J	ug/kg
DUP-3	BSD0092-19	Ethylbenzene	4.55	4.55 J	mg/kg
DUP-3	BSD0092-19	Toluene	0.743	0.743 J	mg/kg
DUP-3	BSD0092-19	o-Xylene	0.694	0.694 J	mg/kg
DUP-3	BSD0092-19	m,p-Xylene	3.47	3.47 J	mg/kg
DUP-3	BSD0092-19	Xylenes (total)	4.16	4.16 J	mg/kg
DUP-3	BSD0092-19	Gasoline Range Hydrocarbons	279	279 J	mg/kg
DUP-3	BSD0092-19	Naphthalene	163	163 J	mg/kg
Area1-I11-14	BSD0108-01	Benzene	0.00204 U	0.00204 UJ	mg/kg
Area1-I11-14	BSD0108-01	Ethylbenzene	0.00544 U	0.00544 UJ	mg/kg
Area1-I11-14	BSD0108-01	Methyl tert-butyl ether	0.00136 U	0.00136 UJ	mg/kg
Area1-I11-14	BSD0108-01	Toluene	0.00204 U	0.00204 UJ	mg/kg
Area1-I11-14	BSD0108-01	o-Xylene	0.00680 U	0.00680 UJ	mg/kg
Area1-I11-14	BSD0108-01	m,p-Xylene	0.00680 U	0.00680 UJ	mg/kg
Area1-I11-14	BSD0108-01	Total Xylenes	0.0136 U	0.0136 UJ	mg/kg
Area1-I11-14	BSD0108-01	Gasoline Range Hydrocarbons	3.95 J	3.95 J	mg/kg
Area1-I12-14	BSD0108-02	Lube Oil	666	666 J	mg/kg
Area1-I12-14	BSD0108-02	Benzene	0.00543 U	0.00543 UJ	mg/kg
Area1-I12-14	BSD0108-02	Ethylbenzene	0.0145 U	0.0145 UJ	mg/kg
Area1-I12-14	BSD0108-02	Methyl tert-butyl ether	0.00362 U	0.00362 UJ	mg/kg
Area1-I12-14	BSD0108-02	Naphthalene	0.0362 U	0.0362 UJ	mg/kg
Area1-I12-14	BSD0108-02	Toluene	0.00543 U	0.00543 UJ	mg/kg
Area1-I12-14	BSD0108-02	o-Xylene	0.0181 U	0.0181 UJ	mg/kg
Area1-I12-14	BSD0108-02	m,p-Xylene	0.0181 U	0.0181 UJ	mg/kg
Area1-I12-14	BSD0108-02	Total Xylenes	0.0362 U	0.0362 UJ	mg/kg
Area2-D10-14	BSD0108-03	Benzene	0.00361 U	0.00361 UJ	mg/kg
Area2-D10-14	BSD0108-03	Naphthalene	0.0241 U	0.0241 UJ	mg/kg
Area2-D10-14	BSD0108-03	Toluene	0.00361 U	0.00361 UJ	mg/kg
Area2-D10-14	BSD0108-03	Gasoline Range Hydrocarbons	21.9 J	21.9 J	mg/kg
Area2-C10-14	BSD0108-04	Ethylbenzene	0.0126 U	0.0126 UJ	mg/kg
Area2-C10-14	BSD0108-04	Naphthalene	0.0316 U	0.0316 UJ	mg/kg
Area2-C10-14	BSD0108-04	Toluene	0.00474 U	0.00474 UJ	mg/kg
Area2-C10-14	BSD0108-04	o-Xylene	0.0158 U	0.0158 UJ	mg/kg
Area2-C10-14	BSD0108-04	m,p-Xylene	0.0158 U	0.0158 UJ	mg/kg
Area2-C10-14	BSD0108-04	Total Xylenes	0.0316 U	0.0316 UJ	mg/kg
Area2-C10-14	BSD0108-04	Gasoline Range Hydrocarbons	32.7 U	32.7 U DNR	mg/kg
Area2-B10-14	BSD0108-05	Methyl tert-butyl ether	0.00233 U	0.00233 UJ	mg/kg
Area2-B10-14	BSD0108-05	Ethylbenzene	0.137 J	0.137 J	mg/kg
Area2-B10-14	BSD0108-05	m,p-Xylene	0.275 J	0.275 J	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Area2-B10-14	BSD0108-05	Xylenes (total)	0.355 J	0.355 J	mg/kg
Area2-B10-14	BSD0108-05	Gasoline Range Hydrocarbons	21.4 J	21.4 J	mg/kg
Area2-A10-14	BSD0108-06	Toluene	0.00699 U	0.00699 UJ	mg/kg
Area2-A10-14	BSD0108-06	Ethylbenzene	0.208 J	0.208 J	mg/kg
Area2-A10-14	BSD0108-06	m,p-Xylene	0.665 J	0.665 J	mg/kg
Area2-A10-14	BSD0108-06	Xylenes (total)	0.665 J	0.665 J	mg/kg
Area2-A10-14	BSD0108-06	Gasoline Range Hydrocarbons	22.2 J	22.2 J	mg/kg
Area2-B6-9	BSD0108-07	Ethylbenzene	0.0166 U	0.0166 UJ	mg/kg
Area2-B6-9	BSD0108-07	Naphthalene	0.0415 U	0.0415 UJ	mg/kg
Area2-B6-9	BSD0108-07	Toluene	0.00622 U	0.00622 UJ	mg/kg
Area2-B6-9	BSD0108-07	o-Xylene	0.0207 U	0.0207 UJ	mg/kg
Area2-B6-9	BSD0108-07	m,p-Xylene	0.0207 U	0.0207 UJ	mg/kg
Area2-B6-9	BSD0108-07	Total Xylenes	0.0415 U	0.0415 UJ	mg/kg
Area2-C9-9	BSD0108-08	Benzene	0.00117 U	0.00117 UJ	mg/kg
Area2-C9-9	BSD0108-08	Ethylbenzene	0.00312 U	0.00312 UJ	mg/kg
Area2-C9-9	BSD0108-08	Methyl tert-butyl ether	0.000780 U	0.000780 UJ	mg/kg
Area2-C9-9	BSD0108-08	Naphthalene	0.00780 U	0.00780 UJ	mg/kg
Area2-C9-9	BSD0108-08	Toluene	0.00117 U	0.00117 UJ	mg/kg
Area2-C9-9	BSD0108-08	o-Xylene	0.00390 U	0.00390 UJ	mg/kg
Area2-C9-9	BSD0108-08	m,p-Xylene	0.00390 U	0.00390 UJ	mg/kg
Area2-C9-9	BSD0108-08	Total Xylenes	0.00780 U	0.00780 UJ	mg/kg
Area1-H7-14	BSD0108-09	Gasoline Range Hydrocarbons	4.24 J	4.24 J	mg/kg
Area2-B9-9	BSD0108-10	Naphthalene	0.0295 U	0.0295 UJ	mg/kg
Area2-B9-9	BSD0108-10	Gasoline Range Hydrocarbons	33.5 U	33.5 U DNR	mg/kg
Area1-H12-14	BSD0125-01	Gasoline Range Hydrocarbons	306	306 J	mg/kg
Area1-H13-14	BSD0125-02	Gasoline Range Hydrocarbons	1.33	1.33 J	mg/kg
Area1-H14-14	BSD0125-03	Gasoline Range Hydrocarbons	49.5	49.5 J	mg/kg
Area1-H15-14	BSD0125-04	Gasoline Range Hydrocarbons	48.6	48.6 J	mg/kg
Area1-I13-14	BSD0125-05	Gasoline Range Hydrocarbons	96.2	96.2 J	mg/kg
Area1-I14-14	BSD0125-06	Gasoline Range Hydrocarbons	92.8	92.8 J	mg/kg
Area1-I15-14	BSD0125-07	Gasoline Range Hydrocarbons	104	104 J	mg/kg
Area1-F11-14	BSD0125-08	Gasoline Range Hydrocarbons	25.5	25.5 J	mg/kg
Area1-F12-14	BSD0125-09	Kerosene	995	995 J	mg/kg
Area1-F12-14	BSD0125-09	Lube Oil	23300	23300 J	mg/kg
Area1-F12-14	BSD0125-09	Diesel Range Hydrocarbons	13000	13000 J	mg/kg
Area1-F12-14	BSD0125-09	Gasoline Range Hydrocarbons	43.8	43.8 J	mg/kg
Area1-F13-14	BSD0125-10	Gasoline Range Hydrocarbons	23	23.0 J	mg/kg
Area1-F14-14	BSD0125-11	Gasoline Range Hydrocarbons	17.8	17.8 J	mg/kg
Area1-G12-14	BSD0125-13	Gasoline Range Hydrocarbons	306	306 J	mg/kg
Area1-G13-14	BSD0125-14	Gasoline Range Hydrocarbons	155	155 J	mg/kg
Area1-G14-14	BSD0125-15	Gasoline Range Hydrocarbons	20.8	20.8 J	mg/kg
Area1-I10-9	BSD0135-01	Gasoline Range Hydrocarbons	20.2	20.2 J	mg/kg
Area1-E11-14	BSD0135-03	Kerosene	5200	5200 J	mg/kg
Area1-E11-14	BSD0135-03	Gasoline Range Hydrocarbons	9.63	9.63 J	mg/kg
Area1-D11-14	BSD0135-07	Kerosene	2070	2070 J	mg/kg
Area1-D11-14	BSD0135-07	Gasoline Range Hydrocarbons	0.0705	0.0705 J	mg/kg
Area1-D11-14	BSD0135-07	Diesel Range Hydrocarbons	12700	12700 J	mg/kg
Area1-D11-14	BSD0135-07	Lube Oil	14200	14200 J	mg/kg
Area1-D11-14	BSD0135-07	Benzene	0.0705	0.0705 J	mg/kg
Area1-D11-14	BSD0135-07	Ethylbenzene	0.216	0.216 J	mg/kg
Area1-D11-14	BSD0135-07	Toluene	0.28	0.280 J	mg/kg
Area1-D11-14	BSD0135-07	Xylenes (total)	0.974	0.974 J	mg/kg
Area1-D12-14	BSD0135-08	Gasoline Range Hydrocarbons	183	183 J	mg/kg
Area1-D12-14	BSD0135-08	Benzene	0.0275	0.0275 J	mg/kg
Area1-D12-14	BSD0135-08	Ethylbenzene	0.215	0.215 J	mg/kg
Area1-D12-14	BSD0135-08	Xylenes (total)	0.899	0.899 J	mg/kg
Area1-E12-14	BSD0135-11	Benzene	0.0291	0.0291 J	mg/kg
Area1-E12-14	BSD0135-11	Ethylbenzene	0.112	0.112 J	mg/kg
Area1-E12-14	BSD0135-11	Toluene	0.0609	0.0609 J	mg/kg
Area1-E12-14	BSD0135-11	Xylenes (total)	0.399	0.399 J	mg/kg
Area1-E12-14	BSD0135-11	Gasoline Range Hydrocarbons	110	110 J	mg/kg
DUP-4	BSD0135-12	Kerosene	790	790 J	mg/kg
DUP-4	BSD0135-12	Lube Oil	6540	6540 J	mg/kg
DUP-4	BSD0135-12	Diesel Range Hydrocarbons	4970	4970 J	mg/kg
DUP-4	BSD0135-12	Gasoline Range Hydrocarbons	180	180 J	mg/kg
DUP-4	BSD0135-12	Benzene	0.0967	0.0967 J	mg/kg
DUP-4	BSD0135-12	Ethylbenzene	0.239	0.239 J	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
DUP-4	BSD0135-12	Toluene	0.328	0.328 J	mg/kg
DUP-4	BSD0135-12	Xylenes (total)	1.41	1.41 J	mg/kg
Areal-B13-10	BSD0135-13	Toluene	0.00849	0.00849 J	mg/kg
Areal-B13-10	BSD0135-13	Gasoline Range Hydrocarbons	79.3	79.3 J	mg/kg
Areal-B14-9	BSD0135-14	Gasoline Range Hydrocarbons	192	192 J	mg/kg
Areal-J11-9	BSD0147-01	Gasoline Range Hydrocarbons	4.73 J	4.73 J	mg/kg
Areal-J11-9	BSD0147-01	Lead	1.6	1.60 J	mg/kg
Areal-J12-9	BSD0147-02	Lead	1.7	1.70 J	mg/kg
Areal-J13-9	BSD0147-03	Benzene	0.000793 U	0.000793 UJ	mg/kg
Areal-J13-9	BSD0147-03	Methyl tert-butyl ether	0.000529 U	0.000529 UJ	mg/kg
Areal-J13-9	BSD0147-03	Naphthalene	0.00529 U	0.00529 UJ	mg/kg
Areal-J13-9	BSD0147-03	Lead	1.55	1.55 J	mg/kg
Areal-J14-9	BSD0147-04	Lead	1.48	1.48 J	mg/kg
Areal-J15-9	BSD0147-05	Lead	1.57	1.57 J	mg/kg
Areal-H12-9	BSD0158-01	Ethylbenzene	0.0143 U	0.0143 UJ	mg/kg
Areal-H12-9	BSD0158-01	Methyl tert-butyl ether	0.00358 U	0.00358 UJ	mg/kg
Areal-H12-9	BSD0158-01	Naphthalene	0.0358 U	0.0358 UJ	mg/kg
Areal-H12-9	BSD0158-01	Toluene	0.00537 U	0.00537 UJ	mg/kg
Areal-H12-9	BSD0158-01	o-Xylene	0.0179 U	0.0179 UJ	mg/kg
Areal-H12-9	BSD0158-01	m,p-Xylene	0.0179 U	0.0179 UJ	mg/kg
Areal-H12-9	BSD0158-01	Total Xylenes	0.0358 U	0.0358 UJ	mg/kg
Areal-H12-9	BSD0158-01	Lead	1010	1010 J	mg/kg
Areal-H12-9	BSD0158-01	Gasoline Range Hydrocarbons	34.3 U	34.3 U DNR	mg/kg
Areal-I15-9	BSD0158-02	Lead	3.40	3.40 J	mg/kg
Areal-I15-9	BSD0158-02	Ethylbenzene	0.00400 U	0.00400 UJ	mg/kg
Areal-I15-9	BSD0158-02	Naphthalene	0.0100 U	0.0100 UJ	mg/kg
Areal-I15-9	BSD0158-02	Toluene	0.00150 U	0.00150 UJ	mg/kg
Areal-I15-9	BSD0158-02	o-Xylene	0.00500 U	0.00500 UJ	mg/kg
Areal-I15-9	BSD0158-02	m,p-Xylene	0.00500 U	0.00500 UJ	mg/kg
Areal-I15-9	BSD0158-02	Total Xylenes	0.0100 U	0.0100 UJ	mg/kg
Areal-B10-14	BSD0158-03	Lead	4.36	4.36 J	mg/kg
Areal-C10-14	BSD0158-04	Lead	4.10	4.10 J	mg/kg
Areal-C11-14	BSD0158-05	Lead	4.19	4.19 J	mg/kg
Areal-F12-9	BSD0158-06	Lead	164	164 J	mg/kg
Areal-F12-9	BSD0158-06	Ethylbenzene	0.0108 U	0.0108 UJ	mg/kg
Areal-F12-9	BSD0158-06	m,p-Xylene	0.213 J	0.213 J	mg/kg
Areal-F12-9	BSD0158-06	Gasoline Range Hydrocarbons	44.6 J	44.6 J	mg/kg
Areal-F12-9	BSD0158-06	Gasoline Range Hydrocarbons	21.3 J	21.3 DNR	mg/kg
Areal-E11-9	BSD0158-07	Lead	80.2	80.2 J	mg/kg
Areal-E11-9	BSD0158-07	Methyl tert-butyl ether	0.000849 U	0.000849 UJ	mg/kg
Areal-E11-9	BSD0158-07	Benzene	0.131	0.131 J	mg/kg
Areal-E11-9	BSD0158-07	Ethylbenzene	0.0563 J	0.0563 J	mg/kg
Areal-E11-9	BSD0158-07	Toluene	0.0422 J	0.0422 J	mg/kg
Areal-E11-9	BSD0158-07	o-Xylene	0.0382 J	0.0382 J	mg/kg
Areal-E11-9	BSD0158-07	m,p-Xylene	0.141 J	0.141 J	mg/kg
Areal-E11-9	BSD0158-07	Xylenes (total)	0.179 J	0.179 J	mg/kg
Areal-E11-9	BSD0158-07	Gasoline Range Hydrocarbons	9.63 J	9.63 J	mg/kg
Areal-D11-9	BSD0158-08	Diesel Range Hydrocarbons	46.8	46.8 J	mg/kg
Areal-D11-9	BSD0158-08	Lead	10.5	10.5 J	mg/kg
Areal-D11-9	BSD0158-08	Ethylbenzene	0.00210 U	0.00210 UJ	mg/kg
Areal-D11-9	BSD0158-08	Naphthalene	0.00525 U	0.00525 UJ	mg/kg
Areal-D11-9	BSD0158-08	Toluene	0.000787 U	0.000787 UJ	mg/kg
Areal-D11-9	BSD0158-08	o-Xylene	0.00262 U	0.00262 UJ	mg/kg
Areal-D11-9	BSD0158-08	m,p-Xylene	0.00262 U	0.00262 UJ	mg/kg
Areal-D11-9	BSD0158-08	Total Xylenes	0.00525 U	0.00525 UJ	mg/kg
DUP-5	BSD0158-09	Diesel Range Hydrocarbons	22.4	22.4 J	mg/kg
DUP-5	BSD0158-09	Lead	13.1	13.1 J	mg/kg
Areal-H15-9	BSD0158-10	Lead	1.54	1.54 J	mg/kg
Areal-G15-9	BSD0158-11	Lead	2.05	2.05 J	mg/kg
Areal-F15-9	BSD0158-12	Lead	1.47	1.47 J	mg/kg
Areal-B14-7	BSD0176-01	Lead	19.8	19.8 J	mg/kg
Areal-B14-7	BSD0176-01	Gasoline Range Hydrocarbons	59.6	59.6 J	mg/kg
Areal-B14-7	BSD0176-01	Benzene	0.592	0.592 J	mg/kg
Areal-C13-9	BSD0176-02	Lead	3.58	3.58 J	mg/kg
Areal-C13-9	BSD0176-02	Benzene	0.0847	0.0847 J	mg/kg
Areal-C13-9	BSD0176-02	Ethylbenzene	0.00693 U	0.00693 UJ	mg/kg
Areal-C13-9	BSD0176-02	Naphthalene	0.0173 U	0.0173 UJ	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Areal-C13-9	BSD0176-02	Toluene	0.00260 U	0.00260 UJ	mg/kg
Areal-C13-9	BSD0176-02	o-Xylene	0.00867 U	0.00867 UJ	mg/kg
Areal-C13-9	BSD0176-02	m,p-Xylene	0.00867 U	0.00867 UJ	mg/kg
Areal-C13-9	BSD0176-02	Total Xylenes	0.0173 U	0.0173 UJ	mg/kg
Areal-C12-9	BSD0176-03	Lead	11.2	11.2 J	mg/kg
Areal-C12-9	BSD0176-03	Ethylbenzene	0.0108 U	0.0108 UJ	mg/kg
Areal-C12-9	BSD0176-03	Naphthalene	0.0270 U	0.0270 UJ	mg/kg
Areal-C12-9	BSD0176-03	o-Xylene	0.0135 U	0.0135 UJ	mg/kg
Areal-C12-9	BSD0176-03	m,p-Xylene	0.0135 U	0.0135 UJ	mg/kg
Areal-C12-9	BSD0176-03	Total Xylenes	0.0270 U	0.0270 UJ	mg/kg
Areal-C12-9	BSD0176-03	Gasoline Range Hydrocarbons	27.6 U	27.6 U DNR	mg/kg
Areal-C9-14	BSD0176-04	Lead	156	156 J	mg/kg
Areal-C9-14	BSD0176-04	Benzene	0.00193 U	0.00193 UJ	mg/kg
Areal-C9-14	BSD0176-04	Ethylbenzene	0.00515 U	0.00515 UJ	mg/kg
Areal-C9-14	BSD0176-04	Naphthalene	0.0129 U	0.0129 UJ	mg/kg
Areal-C9-14	BSD0176-04	Toluene	0.00193 U	0.00193 UJ	mg/kg
Areal-C9-14	BSD0176-04	o-Xylene	0.00644 U	0.00644 UJ	mg/kg
Areal-C9-14	BSD0176-04	m,p-Xylene	0.00644 U	0.00644 UJ	mg/kg
Areal-C9-14	BSD0176-04	Total Xylenes	0.0129 U	0.0129 UJ	mg/kg
Areal-C8-14	BSD0176-05	Lead	3.23	3.23 J	mg/kg
Areal-C8-14	BSD0176-05	Ethylbenzene	0.0238 J	0.0238 J	mg/kg
Areal-C8-14	BSD0176-05	Gasoline Range Hydrocarbons	7.07	7.07 J	mg/kg
Areal-C8-14	BSD0176-05	Benzene	0.0460	0.0460 DNR	mg/kg
Areal-C8-14	BSD0176-05	Ethylbenzene	0.0954	0.0954 DNR	mg/kg
Areal-C8-14	BSD0176-05	Methyl tert-butyl ether	0.000541 U	0.000541 U DNR	mg/kg
Areal-C8-14	BSD0176-05	Toluene	0.00798	0.00798 DNR	mg/kg
Areal-C7-14	BSD0176-06	Lead	23.3	23.3 J	mg/kg
Areal-C7-14	BSD0176-06	Gasoline Range Hydrocarbons	2.73 J	2.73 J	mg/kg
Areal-B9-14	BSD0176-07	Lead	3.07	3.07 J	mg/kg
Areal-B8-14	BSD0176-08	Lead	6.57	6.57 J	mg/kg
Areal-B7-14	BSD0176-09	Lead	8.96	8.96 J	mg/kg
DUP-6	BSD0176-10	Lead	3.73	3.73 J	mg/kg
DUP-6	BSD0176-10	Gasoline Range Hydrocarbons	13.1	13.1 J	mg/kg
Areal-D7-14	BSD0176-11	Lead	19.4	19.4 J	mg/kg
Areal-D7-14	BSD0176-11	Gasoline Range Hydrocarbons	14.5	14.5 J	mg/kg
Areal-D8-14	BSD0176-12	Lead	250	250 J	mg/kg
Areal-D8-14	BSD0176-12	Ethylbenzene	0.110 J	0.110 J	mg/kg
Areal-D8-14	BSD0176-12	Toluene	0.0745 J	0.0745 J	mg/kg
Areal-D8-14	BSD0176-12	o-Xylene	0.116 J	0.116 J	mg/kg
Areal-D8-14	BSD0176-12	m,p-Xylene	0.504 J	0.504 J	mg/kg
Areal-D8-14	BSD0176-12	Xylenes (total)	0.620 J	0.620 J	mg/kg
Areal-D8-14	BSD0176-12	Gasoline Range Hydrocarbons	121	121 J	mg/kg
Areal-D9-14	BSD0176-13	Ethylbenzene	0.00325 U	0.00325 UJ	mg/kg
Areal-D9-14	BSD0176-13	Methyl tert-butyl ether	0.000812 U	0.000812 UJ	mg/kg
Areal-D9-14	BSD0176-13	Naphthalene	0.00812 U	0.00812 UJ	mg/kg
Areal-D9-14	BSD0176-13	Toluene	0.00122 U	0.00122 UJ	mg/kg
Areal-D9-14	BSD0176-13	o-Xylene	0.00406 U	0.00406 UJ	mg/kg
Areal-D9-14	BSD0176-13	m,p-Xylene	0.00406 U	0.00406 UJ	mg/kg
Areal-D9-14	BSD0176-13	Total Xylenes	0.00812 U	0.00812 UJ	mg/kg
Areal-D9-14	BSD0176-13	Gasoline Range Hydrocarbons	7.51 J	7.51 J	mg/kg
Areal-D9-14	BSD0176-13	Lead	837	837 J	mg/kg
Area2-C10-9	BSD0209-01	Gasoline Range Hydrocarbons	1.83 J	1.83 J	mg/kg
Areal-H14-9	BSD0209-04	Benzene	0.000932 U	0.000932 UJ	mg/kg
Areal-H14-9	BSD0209-04	Ethylbenzene	0.00248 U	0.00248 UJ	mg/kg
Areal-H14-9	BSD0209-04	Methyl tert-butyl ether	0.000621 U	0.000621 UJ	mg/kg
Areal-H14-9	BSD0209-04	Naphthalene	0.00621 U	0.00621 UJ	mg/kg
Areal-H14-9	BSD0209-04	Toluene	0.000932 U	0.000932 UJ	mg/kg
Areal-H14-9	BSD0209-04	o-Xylene	0.00311 U	0.00311 UJ	mg/kg
Areal-H14-9	BSD0209-04	m,p-Xylene	0.00311 U	0.00311 UJ	mg/kg
Areal-H14-9	BSD0209-04	Total Xylenes	0.00621 U	0.00621 UJ	mg/kg
Areal-G8-14	BSD0209-06	Methyl tert-butyl ether	0.00216 U	0.00216 UJ	mg/kg
Areal-G8-14	BSD0209-06	Ethylbenzene	0.176 J	0.176 J	mg/kg
Areal-G8-14	BSD0209-06	Toluene	0.166 J	0.166 J	mg/kg
Areal-G8-14	BSD0209-06	m,p-Xylene	0.602 J	0.602 J	mg/kg
Areal-G8-14	BSD0209-06	Xylenes (total)	0.705 J	0.705 J	mg/kg
Areal-G8-14	BSD0209-06	Gasoline Range Hydrocarbons	184	184 J	mg/kg
Areal-G9-14	BSD0209-07	Methyl tert-butyl ether	0.00250 U	0.00250 UJ	mg/kg

**Table 2
Summary of Qualified Data**

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Areal-G9-14	BSD0209-07	Benzene	0.208 J	0.208 J	mg/kg
Areal-G9-14	BSD0209-07	Toluene	0.169 J	0.169 J	mg/kg
Areal-G9-14	BSD0209-07	Gasoline Range Hydrocarbons	63.9 J	63.9 J	mg/kg
Areal-G12-9	BSD0221-02	Naphthalene	0.00903 U	0.00903 UJ	mg/kg
Area2-F4-14	BSD0221-03	Naphthalene	0.00888 U	0.00888 UJ	mg/kg
Area2-F4-14	BSD0221-03	Toluene	0.0409 J	0.0409 J	mg/kg
Areal-F13-9	BSD0221-04	Ethylbenzene	0.0129 U	0.0129 UJ	mg/kg
Areal-F13-9	BSD0221-04	Methyl tert-butyl ether	0.00322 U	0.00322 UJ	mg/kg
Areal-F13-9	BSD0221-04	Naphthalene	0.0322 U	0.0322 UJ	mg/kg
Areal-F13-9	BSD0221-04	o-Xylene	0.0161 U	0.0161 UJ	mg/kg
Areal-F13-9	BSD0221-04	m,p-Xylene	0.0161 U	0.0161 UJ	mg/kg
Areal-F13-9	BSD0221-04	Xylenes (total)	0.0322 U	0.0322 UJ	mg/kg
Areal-D12-9	BSD0221-07	Methyl tert-butyl ether	0.00324 U	0.00324 UJ	mg/kg
Areal-D12-9	BSD0221-07	Naphthalene	0.0324 U	0.0324 UJ	mg/kg
Areal-D12-9	BSD0221-07	Gasoline Range Hydrocarbons	31.5	31.5 J	mg/kg
Areal-E12-9	BSD0221-08	Benzene	0.00565	0.00565 J	mg/kg
Areal-E12-9	BSD0221-08	Ethylbenzene	0.0138 U	0.0138 UJ	mg/kg
Areal-E12-9	BSD0221-08	Naphthalene	0.0344 U	0.0344 UJ	mg/kg
Areal-E12-9	BSD0221-08	Toluene	0.00516 U	0.00516 UJ	mg/kg
Areal-E12-9	BSD0221-08	Gasoline Range Hydrocarbons	21.3	21.3 J	mg/kg
CI-TK1	BSD0222-01	Lube Oil	1.90	1.90 J	mg/l
CI-TK1	BSD0222-01	Diesel Range Hydrocarbons	7.36	7.36 J	mg/l
CI-TK1	BSD0222-01	o-Xylene	0.250 U	0.250 U DNR	ug/l
CI-TK1	BSD0222-01	m,p-Xylene	0.530	0.530 DNR	ug/l
CI-TK1	BSD0222-01	Total Xylenes	0.750 U	0.750 U DNR	ug/l
CI-TK1	BSD0222-01	Benzene	0.500 U	0.500 U DNR	ug/l
CI-TK1	BSD0222-01	Toluene	0.500 U	0.500 U DNR	ug/l
CI-TK1	BSD0222-01	Ethylbenzene	0.500 U	0.500 U DNR	ug/l
Areal-A9-14	BSD0232-01	Lead	4.69	4.69 J	mg/kg
Areal-A8-14	BSD0232-02	Lead	42.9	42.9 J	mg/kg
Areal-A7-14	BSD0232-03	Lead	2.58	2.58 J	mg/kg
Areal-A6-14	BSD0232-04	Lead	7.95	7.95 J	mg/kg
Areal-A5-14	BSD0232-05	Lead	20.4	20.4 J	mg/kg
Areal-A4-14	BSD0232-06	Lead	49.3	49.3 J	mg/kg
DUP-8	BSD0232-07	Lead	44.2	44.2 J	mg/kg
Areal-F11-9	BSD0232-09	Lead	19.3	19.3 J	mg/kg
Areal-E11-7	BSD0232-10	Lead	9.04	9.04 J	mg/kg
Areal-E11-7	BSD0232-10	Naphthalene	0.0217 U	0.0217 UJ	mg/kg
Areal-E11-7	BSD0232-10	Gasoline Range Hydrocarbons	19.0 U	19.0 U DNR	mg/kg
Areal-D12-6	BSD0249-01	Ethylbenzene	0.00355 U	0.00355 UJ	mg/kg
Areal-D12-6	BSD0249-01	Naphthalene	0.00888 U	0.00888 UJ	mg/kg
Areal-D12-6	BSD0249-01	Toluene	0.00133 U	0.00133 UJ	mg/kg
Areal-D12-6	BSD0249-01	o-Xylene	0.00444 U	0.00444 UJ	mg/kg
Areal-D12-6	BSD0249-01	m,p-Xylene	0.00444 U	0.00444 UJ	mg/kg
Areal-D12-6	BSD0249-01	Total Xylenes	0.00888 U	0.00888 UJ	mg/kg
Areal-C6-14	BSD0249-03	Gasoline Range Hydrocarbons	2.40 J	2.40 J	mg/kg
Areal-F13-6	BSD0249-06	Benzene	0.00105 U	0.00105 UJ	mg/kg
Areal-F13-6	BSD0249-06	Ethylbenzene	0.00279 U	0.00279 UJ	mg/kg
Areal-F13-6	BSD0249-06	Methyl tert-butyl ether	0.000697 U	0.000697 UJ	mg/kg
Areal-F13-6	BSD0249-06	Toluene	0.00105 U	0.00105 UJ	mg/kg
Areal-F13-6	BSD0249-06	o-Xylene	0.00348 U	0.00348 UJ	mg/kg
Areal-F13-6	BSD0249-06	m,p-Xylene	0.00348 U	0.00348 UJ	mg/kg
Areal-F13-6	BSD0249-06	Total Xylenes	0.00697 U	0.00697 UJ	mg/kg
Areal-B4-14	BSD0275-01	Lead	5.72	5.72 J	mg/kg
Areal-B4-14	BSD0275-01	Gasoline Range Hydrocarbons	2.42 J	2.42 J	mg/kg
Areal-B5-14	BSD0275-02	Lead	3.26	3.26 J	mg/kg
Areal-B5-14	BSD0275-02	Gasoline Range Hydrocarbons	5.06 J	5.06 J	mg/kg
Areal-C4-14	BSD0275-03	Lead	4.36	4.36 J	mg/kg
Areal-C4-14	BSD0275-03	Gasoline Range Hydrocarbons	2.44 J	2.44 J	mg/kg
Areal-C5-14	BSD0275-04	Lead	39.5	39.5 J	mg/kg
Areal-C5-14	BSD0275-04	Gasoline Range Hydrocarbons	351	351 J	mg/kg
Areal-D4-14	BSD0275-05	Lead	3.20	3.20 J	mg/kg
Areal-D4-14	BSD0275-05	Gasoline Range Hydrocarbons	2.92 J	2.92 J	mg/kg
Areal-D5-14	BSD0275-06	Lead	17.9	17.9 J	mg/kg
Areal-D5-14	BSD0275-06	Toluene	0.0409	0.0409 J	mg/kg
Areal-D5-14	BSD0275-06	Gasoline Range Hydrocarbons	1080	1080 J	mg/kg
Areal-D5-14	BSD0275-06	Benzene	0.419	0.419 J	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Areal-D5-14	BSD0275-06	Ethylbenzene	4.93	4.93 J	mg/kg
Areal-D5-14	BSD0275-06	Toluene	0.419	0.0419 J	mg/kg
Areal-D5-14	BSD0275-06	Xylenes (total)	5.31	5.31 J	mg/kg
Areal-E4-14	BSD0275-07	Lead	2.30	2.30 J	mg/kg
Areal-E4-14	BSD0275-07	Ethylbenzene	0.0319 J	0.0319 J	mg/kg
Areal-E4-14	BSD0275-07	m,p-Xylene	0.0298 J	0.0298 J	mg/kg
Areal-E4-14	BSD0275-07	Gasoline Range Hydrocarbons	1.92 J	1.92 J	mg/kg
Areal-E5-14	BSD0275-08	Lead	19.4	19.4 J	mg/kg
DUP-10	BSD0275-09	Lead	18.6	18.6 J	mg/kg
DUP-10	BSD0275-09	Gasoline Range Hydrocarbons	838	838 J	mg/kg
DUP-10	BSD0275-09	Toluene	0.0241	0.0241 J	mg/kg
Areal-H5-14	BSD0286-06	Gasoline Range Hydrocarbons	78.4	78.4 J	mg/kg
Areal-H5-14	BSD0286-06	Toluene	0.00630	0.00630 J	mg/kg
Areal-H5-14	BSD0286-06	o-Xylene	0.0522	0.0522 J	mg/kg
DUP-11	BSD0286-07	Toluene	0.0204	0.0204 J	mg/kg
DUP-11	BSD0286-07	o-Xylene	0.0256	0.0256 J	mg/kg
DUP-11	BSD0286-07	Gasoline Range Hydrocarbons	81.8	81.8 J	mg/kg
Amazon Lot 34-13	BSD0301-01	Lead	2.62	2.62 J	mg/kg
Areal-A2-14	BSD0302-01	Lead	4.77	4.77 J	mg/kg
Areal-A3-14	BSD0302-02	Lead	105	105 J	mg/kg
Areal-A3-14	BSD0302-02	Ethylbenzene	0.00306 U	0.00306 UJ	mg/kg
Areal-A3-14	BSD0302-02	Naphthalene	0.00766 U	0.00766 UJ	mg/kg
Areal-A3-14	BSD0302-02	Toluene	0.00115 U	0.00115 UJ	mg/kg
Areal-A3-14	BSD0302-02	o-Xylene	0.00383 U	0.00383 UJ	mg/kg
Areal-A3-14	BSD0302-02	m,p-Xylene	0.00383 U	0.00383 UJ	mg/kg
Areal-A3-14	BSD0302-02	Total Xylenes	0.00766 U	0.00766 UJ	mg/kg
Areal-A3-14	BSD0302-02	Gasoline Range Hydrocarbons	3.04 J	3.04 J	mg/kg
Areal-B2-14	BSD0302-03	Lead	11.1	11.1 J	mg/kg
Areal-B2-14	BSD0302-03	Gasoline Range Hydrocarbons	2.01 J	2.01 J	mg/kg
Areal-B3-14	BSD0302-04	Lead	23.8	23.8 J	mg/kg
Areal-B3-14	BSD0302-04	Gasoline Range Hydrocarbons	70.2	70.2 J	mg/kg
Areal-C2-14	BSD0302-05	Lead	8.91	8.91 J	mg/kg
Areal-C3-14	BSD0302-06	Lead	8.72	8.72 J	mg/kg
Areal-C3-14	BSD0302-06	Gasoline Range Hydrocarbons	1.71 J	1.71 J	mg/kg
Areal-D2-14	BSD0302-07	Lead	14.3	14.3 J	mg/kg
Areal-D3-14	BSD0302-08	Lead	14.8	14.8 J	mg/kg
Areal-H12-12	BSD0302-09	Lead	120	120 J	mg/kg
Areal-H12-7	BSD0302-10	Lead	1.61	1.61 J	mg/kg
Areal-H11-12	BSD0302-11	Gasoline Range Hydrocarbons	6.56 J	6.56 J	mg/kg
Areal-H11-12	BSD0302-11	Lead	18900	18900 J	mg/kg
Areal-H11-12	BSD0302-11	Benzene	0.00260 U	0.00260 UJ	mg/kg
Areal-H11-12	BSD0302-11	Ethylbenzene	0.00694 U	0.00694 UJ	mg/kg
Areal-H11-12	BSD0302-11	Methyl tert-butyl ether	0.00173 U	0.00173 UJ	mg/kg
Areal-H11-12	BSD0302-11	Naphthalene	0.0173 U	0.0173 UJ	mg/kg
Areal-H11-12	BSD0302-11	Toluene	0.00260 U	0.00260 UJ	mg/kg
Areal-H11-12	BSD0302-11	o-Xylene	0.00867 U	0.00867 UJ	mg/kg
Areal-H11-12	BSD0302-11	m,p-Xylene	0.00867 U	0.00867 UJ	mg/kg
Areal-H11-12	BSD0302-11	Total Xylenes	0.0173 U	0.0173 UJ	mg/kg
Areal-H11-9	BSD0302-12	Lead	2.39	2.39 J	mg/kg
Areal-D11-12	BSD0302-13	Ethylbenzene	0.0108 U	0.0108 UJ	mg/kg
Areal-D11-12	BSD0302-13	Methyl tert-butyl ether	0.00270 U	0.00270 UJ	mg/kg
Areal-D11-12	BSD0302-13	Toluene	0.132 J	0.132 J	mg/kg
Areal-D11-12	BSD0302-13	Lead	4660	4660 J	mg/kg
Areal-D9-9	BSD0302-14	Lead	485	485 J	mg/kg
Areal-D9-12	BSD0302-15	Lead	186	186 J	mg/kg
Areal-B4-9	BSD0323-01	Lead	8.18	8.18 J	mg/kg
Areal-C5-7	BSD0323-03	Lead	3.05	3.05 J	mg/kg
Areal-C5-7	BSD0323-03	Gasoline Range Hydrocarbons	1.81 J	1.81 J	mg/kg
Areal-D5-9	BSD0323-04	Lead	2.74	2.74 J	mg/kg
Areal-D5-9	BSD0323-04	Gasoline Range Hydrocarbons	2.17 J	2.17 J	mg/kg
Areal-E4-9	BSD0323-05	Lead	2.43	2.43 J	mg/kg
Areal-E4-9	BSD0323-05	Gasoline Range Hydrocarbons	1.55 J	1.55 J	mg/kg
Areal-E2-14	BSD0323-06	Lead	10.9	10.9 J	mg/kg
Areal-E2-14	BSD0323-06	Gasoline Range Hydrocarbons	2.10 J	2.10 J	mg/kg
Areal-E3-14	BSD0323-07	Lead	24.5	24.5 J	mg/kg
Areal-F2-14	BSD0323-08	Lead	64.1	64.1 J	mg/kg
Areal-F2-14	BSD0323-08	Gasoline Range Hydrocarbons	2.45 J	2.45 J	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Area1-F3-14	BSD0323-09	Lube Oil	181	181 J	mg/kg
Area1-F3-14	BSD0323-09	Diesel Range Hydrocarbons	127	127 J	mg/kg
Area1-F3-14	BSD0323-09	Lead	35.6	35.6 J	mg/kg
Area1-F3-14	BSD0323-09	Ethylbenzene	0.00228 U	0.00228 UJ	mg/kg
Area1-F3-14	BSD0323-09	Toluene	0.000855 U	0.000855 UJ	mg/kg
Area1-F3-14	BSD0323-09	o-Xylene	0.00285 U	0.00285 UJ	mg/kg
Area1-F3-14	BSD0323-09	m,p-Xylene	0.00285 U	0.00285 UJ	mg/kg
Area1-F3-14	BSD0323-09	Total Xylenes	0.00570 U	0.00570 UJ	mg/kg
Area1-G2-14	BSD0323-10	Lead	7.65	7.65 J	mg/kg
Area1-G2-14	BSD0323-10	Ethylbenzene	0.175 J	0.175 J	mg/kg
Area1-G2-14	BSD0323-10	m,p-Xylene	0.231 J	0.231 J	mg/kg
Area1-G2-14	BSD0323-10	Gasoline Range Hydrocarbons	40.4	40.4 J	mg/kg
Area1-G3-14	BSD0323-11	Naphthalene	0.0192 U	0.0192 UJ	mg/kg
Area1-G3-14	BSD0323-11	Ethylbenzene	0.260 J	0.260 J	mg/kg
Area1-G3-14	BSD0323-11	Toluene	0.0867 J	0.0867 J	mg/kg
Area1-G3-14	BSD0323-11	m,p-Xylene	0.364 J	0.364 J	mg/kg
Area1-G3-14	BSD0323-11	Xylenes (total)	0.451 J	0.451 J	mg/kg
Area1-G3-14	BSD0323-11	Gasoline Range Hydrocarbons	32.5	32.5 J	mg/kg
Area1-G3-14	BSD0323-11	Lead	2050	2050 J	mg/kg
DUP-12	BSD0323-12	Benzene	0.0142	0.0142 J	mg/kg
DUP-12	BSD0323-12	Ethylbenzene	0.136 J	0.136 J	mg/kg
DUP-12	BSD0323-12	Toluene	0.0681 J	0.0681 J	mg/kg
DUP-12	BSD0323-12	m,p-Xylene	0.215 J	0.215 J	mg/kg
DUP-12	BSD0323-12	Xylenes (total)	0.215 J	0.215 J	mg/kg
DUP-12	BSD0323-12	Gasoline Range Hydrocarbons	31.8	31.8 J	mg/kg
DUP-12	BSD0323-12	Lead	881	881 J	mg/kg
DUP-12	BSD0323-12	Naphthalene	0.0161 U	0.0161 UJ	mg/kg
Area1-H2-14	BSD0337-03	Ethylbenzene	0.0143 U	0.0143 UJ	mg/kg
Area1-H2-14	BSD0337-03	Naphthalene	0.0358 U	0.0358 UJ	mg/kg
Area1-H2-14	BSD0337-03	Toluene	0.107 J	0.107 J	mg/kg
Area1-H2-14	BSD0337-03	m,p-Xylene	0.246 J	0.246 J	mg/kg
Area1-H2-14	BSD0337-03	Gasoline Range Hydrocarbons	20.5 J	20.5 J	mg/kg
Area1-H2-14	BSD0337-03	Gasoline Range Hydrocarbons	36.8 U	36.8 U DNR	mg/kg
Area1-I2-14	BSD0337-05	Gasoline Range Hydrocarbons	15.0 J	15.0 J	mg/kg
Area1-I2-14	BSD0337-05	Gasoline Range Hydrocarbons	7.85 J	7.85 DNR	mg/kg
Area1-I2-14	BSD0337-05	Lube Oil	649	649 J	mg/kg
Area1-I5-14	BSE0016-02	Gasoline Range Hydrocarbons	3.33 J	3.33 J	mg/kg
Area1-J2-14	BSE0016-03	Ethylbenzene	0.132 J	0.132 J	mg/kg
Area1-J2-14	BSE0016-03	Toluene	0.264 J	0.264 J	mg/kg
Area1-J2-14	BSE0016-03	m,p-Xylene	0.252 J	0.252 J	mg/kg
Area1-J2-14	BSE0016-03	Xylenes (total)	0.314 J	0.314 J	mg/kg
Area1-J2-14	BSE0016-03	Gasoline Range Hydrocarbons	83.3	83.3 J	mg/kg
Area1-J2-14	BSE0016-03	Lube Oil	2570	2570 J	mg/kg
Area1-J3-14	BSE0016-04	Gasoline Range Hydrocarbons	5.48 J	5.48 J	mg/kg
Area1-J4-14	BSE0016-05	Gasoline Range Hydrocarbons	5.43 J	5.43 J	mg/kg
Area1-J5-14	BSE0016-06	Ethylbenzene	0.0961 J	0.0961 J	mg/kg
Area1-K2-14	BSE0016-07	Toluene	0.855 J	0.855 J	mg/kg
Area1-K2-14	BSE0016-07	Gasoline Range Hydrocarbons	36.0 J	36.0 J	mg/kg
Area1-K2-14	BSE0016-07	Ethylbenzene	0.0138 U	0.0138 UJ	mg/kg
Area1-K2-14	BSE0016-07	Methyl tert-butyl ether	0.00344 U	0.00344 UJ	mg/kg
Area1-K2-14	BSE0016-07	Naphthalene	0.0344 U	0.0344 UJ	mg/kg
Area1-K2-14	BSE0016-07	o-Xylene	0.0172 U	0.0172 UJ	mg/kg
Area1-K2-14	BSE0016-07	m,p-Xylene	0.0172 U	0.0172 UJ	mg/kg
Area1-K2-14	BSE0016-07	Total Xylenes	0.0344 U	0.0344 UJ	mg/kg
DUP-13	BSE0016-11	Lube Oil	930	930 J	mg/kg
DUP-13	BSE0016-11	Ethylbenzene	0.0108	0.0108 J	mg/kg
DUP-13	BSE0016-11	Naphthalene	0.0236 U	0.0236 UJ	mg/kg
DUP-13	BSE0016-11	Toluene	0.0565	0.0565 J	mg/kg
DUP-13	BSE0016-11	m,p-Xylene	0.0191	0.0191 J	mg/kg
DUP-13	BSE0016-11	Total Xylenes	0.0255	0.0255 J	mg/kg
DUP-13	BSE0016-11	Gasoline Range Hydrocarbons	69.8	69.8 J	mg/kg
Area1-H6-7	BSE0016-12	Naphthalene	0.00856 U	0.00856 UJ	mg/kg
Amazon Lot 34-14	BSE0018-01	Barium	34.5	34.5 J	mg/kg
Area1-C1-14	BSE0033-01	Methyl tert-butyl ether	0.000571 U	0.000571 UJ	mg/kg
Area1-C1-14	BSE0033-01	Naphthalene	0.00571 U	0.00571 UJ	mg/kg
Area1-C1-14	BSE0033-01	Toluene	0.000856 U	0.000856 UJ	mg/kg
Area1-C1-14	BSE0033-01	o-Xylene	0.00285 U	0.00285 UJ	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Areal-C1-14	BSE0033-01	m,p-Xylene	0.00285 U	0.00285 UJ	mg/kg
Areal-C1-14	BSE0033-01	Total Xylenes	0.00571 U	0.00571 UJ	mg/kg
Areal-C1-14	BSE0033-01	Benzene	0.0103 J	0.0103 J	mg/kg
Areal-C1-14	BSE0033-01	Ethylbenzene	0.0186 J	0.0186 J	mg/kg
Areal-C1-9	BSE0033-02	Naphthalene	0.00642 U	0.00642 UJ	mg/kg
Areal-C1-9	BSE0033-02	Gasoline Range Hydrocarbons	219	219 J	mg/kg
Areal-D1-14	BSE0033-03	Gasoline Range Hydrocarbons	218	218 J	mg/kg
Areal-D1-9	BSE0033-04	Ethylbenzene	0.118 J	0.118 J	mg/kg
Areal-D1-9	BSE0033-04	Toluene	0.0595 J	0.0595 J	mg/kg
Areal-E1-14	BSE0033-05	m,p-Xylene	0.157 J	0.157 J	mg/kg
Areal-E1-14	BSE0033-05	Gasoline Range Hydrocarbons	14.8 J	14.8 J	mg/kg
Areal-E1-9	BSE0033-06	Methyl tert-butyl ether	0.00218 U	0.00218 UJ	mg/kg
Areal-E1-9	BSE0033-06	Gasoline Range Hydrocarbons	17.4 J	17.4 J	mg/kg
Areal-F1-14	BSE0033-07	Gasoline Range Hydrocarbons	2.84 J	2.84 J	mg/kg
Areal-F1-9	BSE0033-08	Gasoline Range Hydrocarbons	25.5 J	25.5 J	mg/kg
Areal-G1-14	BSE0033-09	Naphthalene	0.0349 U	0.0349 UJ	mg/kg
Areal-G1-14	BSE0033-09	Benzene	0.0925 J	0.0925 J	mg/kg
Areal-G1-14	BSE0033-09	m,p-Xylene	0.178 J	0.178 J	mg/kg
Areal-G1-9	BSE0033-10	Gasoline Range Hydrocarbons	15.6 J	15.6 J	mg/kg
Areal-H1-9	BSE0033-12	Naphthalene	0.0320 U	0.0320 UJ	mg/kg
Areal-H1-9	BSE0033-12	o-Xylene	0.0160 U	0.0160 UJ	mg/kg
Areal-H1-9	BSE0033-12	m,p-Xylene	0.0160 U	0.0160 UJ	mg/kg
Areal-H1-9	BSE0033-12	Total Xylenes	0.0320 U	0.0320 UJ	mg/kg
Areal-H1-9	BSE0033-12	Gasoline Range Hydrocarbons	28.1 J	28.1 J	mg/kg
DUP-14	BSE0033-13	Methyl tert-butyl ether	0.000578 U	0.000578 UJ	mg/kg
DUP-14	BSE0033-13	Gasoline Range Hydrocarbons	89.9	89.9 J	mg/kg
Areal-B3-7	BSE0033-16	Gasoline Range Hydrocarbons	5.41 J	5.41 J	mg/kg
Areal-B3-7	BSE0033-16	Ethylbenzene	0.00345 U	0.00345 UJ	mg/kg
Areal-B3-7	BSE0033-16	Naphthalene	0.00862 U	0.00862 UJ	mg/kg
Areal-B3-7	BSE0033-16	Toluene	0.00129 U	0.00129 UJ	mg/kg
Areal-B3-7	BSE0033-16	o-Xylene	0.00431 U	0.00431 UJ	mg/kg
Areal-B3-7	BSE0033-16	m,p-Xylene	0.00431 U	0.00431 UJ	mg/kg
Areal-B3-7	BSE0033-16	Total Xylenes	0.00862 U	0.00862 UJ	mg/kg
Amazon Lot 34-15	BSE0064-01	Acetone	0.0269 U	0.0269 UJ	mg/kg
Amazon Lot 34-16	BSE0081-01	Lead	11.4	11.4 J	mg/kg
Amazon Lot 34-16	BSE0081-01	Acetone	0.0284 U	0.0284 UJ	mg/kg
ICON-POS-2	BSE0094-02	Bromobenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	Bromoform	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	n-Butylbenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	sec-Butylbenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	tert-Butylbenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	Chlorobenzene	1.21 U	1.21 UJ	ug/kg
ICON-POS-2	BSE0094-02	2-Chlorotoluene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	4-Chlorotoluene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	Dibromochloromethane	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,2-Dibromo-3-chloropropane	6.04 U	6.04 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,2-Dibromoethane (EDB)	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,2-Dichlorobenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,3-Dichlorobenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,4-Dichlorobenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,3-Dichloropropane	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	trans-1,3-Dichloropropene	0.755 U	0.755 UJ	ug/kg
ICON-POS-2	BSE0094-02	Ethylbenzene	2.42 U	2.42 UJ	ug/kg
ICON-POS-2	BSE0094-02	Hexachlorobutadiene	6.04 U	6.04 UJ	ug/kg
ICON-POS-2	BSE0094-02	2-Hexanone	18.1 U	18.1 UJ	ug/kg
ICON-POS-2	BSE0094-02	Isopropylbenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	p-Isopropyltoluene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	Naphthalene	6.04 U	6.04 UJ	ug/kg
ICON-POS-2	BSE0094-02	n-Propylbenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	Styrene	1.51 U	1.51 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,2,3-Trichlorobenzene	6.04 U	6.04 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,2,4-Trichlorobenzene	6.04 U	6.04 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,1,1,2-Tetrachloroethane	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,1,2,2-Tetrachloroethane	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,1,2-Trichloroethane	1.21 U	1.21 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,2,4-Trimethylbenzene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	1,3,5-Trimethylbenzene	3.02 U	3.02 UJ	ug/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
ICON-POS-2	BSE0094-02	o-Xylene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	m,p-Xylene	3.02 U	3.02 UJ	ug/kg
ICON-POS-2	BSE0094-02	Total Xylenes	6.04 U	6.04 UJ	ug/kg
ICON-POS-4	BSE0094-04	Acetone	23.5 U	23.5 UJ	ug/kg
ICON-POS-4	BSE0094-04	Benzene	0.882 U	0.882 UJ	ug/kg
ICON-POS-4	BSE0094-04	Bromobenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Bromochloromethane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Bromodichloromethane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Bromoform	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Bromomethane	5.88 U	5.88 UJ	ug/kg
ICON-POS-4	BSE0094-04	2-Butanone	17.6 U	17.6 UJ	ug/kg
ICON-POS-4	BSE0094-04	n-Butylbenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	sec-Butylbenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	tert-Butylbenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Carbon disulfide	1.76 U	1.76 UJ	ug/kg
ICON-POS-4	BSE0094-04	Carbon tetrachloride	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Chlorobenzene	1.18 U	1.18 UJ	ug/kg
ICON-POS-4	BSE0094-04	Chloroethane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Chloroform	1.47 U	1.47 UJ	ug/kg
ICON-POS-4	BSE0094-04	Chloromethane	5.88 U	5.88 UJ	ug/kg
ICON-POS-4	BSE0094-04	2-Chlorotoluene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	4-Chlorotoluene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Dibromochloromethane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,2-Dibromo-3-chloropropane	5.88 U	5.88 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,2-Dibromoethane (EDB)	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Dibromomethane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,2-Dichlorobenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,3-Dichlorobenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,4-Dichlorobenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Dichlorodifluoromethane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,1-Dichloroethane	1.18 U	1.18 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,2-Dichloroethane	0.735 U	0.735 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,1-Dichloroethene	1.76 U	1.76 UJ	ug/kg
ICON-POS-4	BSE0094-04	cis-1,2-Dichloroethene	1.76 U	1.76 UJ	ug/kg
ICON-POS-4	BSE0094-04	trans-1,2-Dichloroethene	1.47 U	1.47 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,2-Dichloropropane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,3-Dichloropropane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	2,2-Dichloropropane	5.88 U	5.88 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,1-Dichloropropene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	cis-1,3-Dichloropropene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	trans-1,3-Dichloropropene	0.735 U	0.735 UJ	ug/kg
ICON-POS-4	BSE0094-04	Ethylbenzene	2.35 U	2.35 UJ	ug/kg
ICON-POS-4	BSE0094-04	Hexachlorobutadiene	5.88 U	5.88 UJ	ug/kg
ICON-POS-4	BSE0094-04	Methyl tert-butyl ether	0.588 U	0.588 UJ	ug/kg
ICON-POS-4	BSE0094-04	n-Hexane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	2-Hexanone	17.6 U	17.6 UJ	ug/kg
ICON-POS-4	BSE0094-04	Isopropylbenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	p-Isopropyltoluene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	4-Methyl-2-pentanone	17.6 U	17.6 UJ	ug/kg
ICON-POS-4	BSE0094-04	Methylene chloride	7.06 U	7.06 UJ	ug/kg
ICON-POS-4	BSE0094-04	Naphthalene	5.88 U	5.88 UJ	ug/kg
ICON-POS-4	BSE0094-04	n-Propylbenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Styrene	1.47 U	1.47 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,2,3-Trichlorobenzene	5.88 U	5.88 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,2,4-Trichlorobenzene	5.88 U	5.88 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,1,1,2-Tetrachloroethane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,1,2,2-Tetrachloroethane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Tetrachloroethene	1.18 U	1.18 UJ	ug/kg
ICON-POS-4	BSE0094-04	Toluene	0.882 U	0.882 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,1,1-Trichloroethane	1.47 U	1.47 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,1,2-Trichloroethane	1.18 U	1.18 UJ	ug/kg
ICON-POS-4	BSE0094-04	Trichloroethene	1.47 U	1.47 UJ	ug/kg
ICON-POS-4	BSE0094-04	Trichlorofluoromethane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,2,3-Trichloropropane	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,2,4-Trimethylbenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	1,3,5-Trimethylbenzene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Vinyl chloride	1.47 U	1.47 UJ	ug/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
ICON-POS-4	BSE0094-04	o-Xylene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	m,p-Xylene	2.94 U	2.94 UJ	ug/kg
ICON-POS-4	BSE0094-04	Total Xylenes	5.88 U	5.88 UJ	ug/kg
ICON-POS-5	BSE0094-05	Lube Oil	218	218 J	mg/kg
Areal-E10-9	BSE0105-01	Gasoline Range Hydrocarbons	8.89 J	8.89 J	mg/kg
Areal-E10-9	BSE0105-01	Naphthalene	0.0117 U	0.0117 UJ	mg/kg
Areal-E1-4	BSE0174-02	Gasoline Range Hydrocarbons	2.27 J	2.27 J	mg/kg
Areal-F1-7	BSE0174-03	Naphthalene	0.0321 U	0.0321 UJ	mg/kg
Areal-F1-7	BSE0174-03	Gasoline Range Hydrocarbons	25.4 J	25.4 J	mg/kg
Amazon Lot 34-18	BSE0201-01	Arsenic	1.43	1.43 J	mg/kg
Amazon Lot 34-18	BSE0201-01	Cadmium	0.535 U	0.535 UJ	mg/kg
Amazon Lot 34-18	BSE0201-01	Bromoform	3.51 U	3.51 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	Chlorobenzene	1.40 U	1.40 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	Dibromochloromethane	3.51 U	3.51 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	1,2-Dibromoethane (EDB)	3.51 U	3.51 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	1,3-Dichloropropane	3.51 U	3.51 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	trans-1,3-Dichloropropene	0.877 U	0.877 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	Ethylbenzene	2.81 U	2.81 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	2-Hexanone	21.0 U	21.0 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	Isopropylbenzene	3.51 U	3.51 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	Styrene	1.75 U	1.75 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	1,1,1,2-Tetrachloroethane	3.51 U	3.51 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	Tetrachloroethene	1.40 U	1.40 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	Toluene	1.05 U	1.05 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	1,1,2-Trichloroethane	1.40 U	1.40 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	o-Xylene	3.51 U	3.51 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	m,p-Xylene	3.51 U	3.51 UJ	ug/kg
Amazon Lot 34-18	BSE0201-01	Total Xylenes	7.01 U	7.01 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Barium	45.0	45.0 J	mg/kg
Amazon Lot 34-19	BSE0211-06	Bromobenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Bromoform	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	n-Butylbenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	sec-Butylbenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	tert-Butylbenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Chlorobenzene	1.33 U	1.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	2-Chlorotoluene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	4-Chlorotoluene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Dibromochloromethane	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,2-Dibromo-3-chloropropane	6.67 U	6.67 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,2-Dibromoethane (EDB)	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,2-Dichlorobenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,3-Dichlorobenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,4-Dichlorobenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,3-Dichloropropane	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	trans-1,3-Dichloropropene	0.833 U	0.833 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Ethylbenzene	2.67 U	2.67 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Hexachlorobutadiene	6.67 U	6.67 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	2-Hexanone	20.0 U	20.0 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Isopropylbenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	p-Isopropyltoluene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Naphthalene	6.67 U	6.67 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	n-Propylbenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Styrene	1.67 U	1.67 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,2,3-Trichlorobenzene	6.67 U	6.67 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,2,4-Trichlorobenzene	6.67 U	6.67 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,1,1,2-Tetrachloroethane	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,1,2,2-Tetrachloroethane	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Tetrachloroethene	1.33 U	1.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Toluene	1.00 U	1.00 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,1,2-Trichloroethane	1.33 U	1.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,2,3-Trichloropropane	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,2,4-Trimethylbenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	1,3,5-Trimethylbenzene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	o-Xylene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	m,p-Xylene	3.33 U	3.33 UJ	ug/kg
Amazon Lot 34-19	BSE0211-06	Total Xylenes	6.67 U	6.67 UJ	ug/kg
Areal-II-14	BSE0272-01	Ethylbenzene	0.0379 J	0.0379 J	mg/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Area1-I1-14	BSE0272-01	o-Xylene	0.0367 J	0.0367 J	mg/kg
Area1-I1-14	BSE0272-01	m,p-Xylene	0.108 J	0.108 J	mg/kg
Area1-I1-14	BSE0272-01	Xylenes (total)	0.145 J	0.145 J	mg/kg
Area1-I1-14	BSE0272-01	Gasoline Range Hydrocarbons	2.20 J	2.20 J	mg/kg
Area1-I1-14	BSE0272-01	Lead	5.71	5.71 J	mg/kg
Area1-I1-9	BSE0272-02	Lead	9.91	9.91 J	mg/kg
Area1-I2-4	BSE0272-03	Lead	1.32	1.32 J	mg/kg
Area1-I4-9	BSE0272-04	Toluene	0.0552 J	0.0552 J	mg/kg
Area1-I4-9	BSE0272-04	o-Xylene	0.391 J	0.391 J	mg/kg
Area1-I4-9	BSE0272-04	Gasoline Range Hydrocarbons	49.9	49.9 J	mg/kg
Area1-I4-7	BSE0272-05	Naphthalene	0.0149 U	0.0149 UJ	mg/kg
Area1-I4-7	BSE0272-05	Toluene	0.00224 U	0.00224 UJ	mg/kg
Area1-I4-7	BSE0272-05	Lead	65.9	65.9 J	mg/kg
Area1-I4-4	BSE0272-06	Lead	2.67	2.67 J	mg/kg
Area1-J1-14	BSE0272-07	Naphthalene	1.50 J	1.50 J	mg/kg
Area1-J1-14	BSE0272-07	Gasoline Range Hydrocarbons	270	270 J	mg/kg
Area1-J1-14	BSE0272-07	Lead	4.63	4.63 J	mg/kg
Area1-J1-9	BSE0272-08	Gasoline Range Hydrocarbons			
Area1-J1-9	BSE0272-08	Lead	12.6	12.6 J	mg/kg
Area1-J2-9	BSE0272-09	Ethylbenzene	0.187 J	0.187 J	mg/kg
Area1-J2-9	BSE0272-09	Toluene	0.187 J	0.187 J	mg/kg
Area1-J2-9	BSE0272-09	o-Xylene	0.177 J	0.177 J	mg/kg
Area1-J2-9	BSE0272-09	m,p-Xylene	0.531 J	0.531 J	mg/kg
Area1-J2-9	BSE0272-09	Xylenes (total)	0.708 J	0.708 J	mg/kg
Area1-J2-9	BSE0272-09	Gasoline Range Hydrocarbons	18.3 J	18.3 J	mg/kg
Area1-J2-9	BSE0272-09	Lead	136	136 J	mg/kg
Area1-J2-7	BSE0272-10	Naphthalene	0.0313 U	0.0313 UJ	mg/kg
Area1-J2-7	BSE0272-10	Gasoline Range Hydrocarbons	11.4 J	11.4 J	mg/kg
Area1-J2-7	BSE0272-10	Lead	156	156 J	mg/kg
Area1-J2-4	BSE0272-11	Lead	2.36	2.36 J	mg/kg
Area2-J3-14	BSE0281-01	Gasoline Range Hydrocarbons	2.68 J	2.68 J	mg/kg
Area2-J3-14	BSE0281-01	Lead	36.4	36.4 J	mg/kg
Area2-J4-14	BSE0281-02	Lead	97.9	97.9 J	mg/kg
Area2-I3-14	BSE0281-03	Lead	164	164 J	mg/kg
Area2-I4-14	BSE0281-04	Lead	19.2	19.2 J	mg/kg
Area2-H3-14	BSE0281-05	Lead	81.8	81.8 J	mg/kg
Area2-H4-14	BSE0281-06	Gasoline Range Hydrocarbons	239	239 J	mg/kg
Area2-H4-14	BSE0281-06	Lead	2.78	2.78 J	mg/kg
Area2-G3-14	BSE0281-07	Gasoline Range Hydrocarbons	2.67 J	2.67 J	mg/kg
Area2-G3-14	BSE0281-07	Lead	29.8	29.8 J	mg/kg
Area2-G4-14	BSE0281-08	Lead	10.2	10.2 J	mg/kg
Area2-F3-14	BSE0281-09	Kerosene	33.5	33.5 J	mg/kg
Area2-F3-14	BSE0281-09	Benzene	0.0826	0.0826 J	mg/kg
Area2-F3-14	BSE0281-09	Lead	20.8	20.8 J	mg/kg
DUP-15	BSE0281-10	Kerosene	74.3	74.3 J	mg/kg
DUP-15	BSE0281-10	Benzene	0.0431	0.0431 J	mg/kg
DUP-15	BSE0281-10	Lead	19.6	19.6 J	mg/kg
Amazon Lot 34-20	BSF0015-01	Benzene	0.859 U	0.859 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Bromobenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Bromodichloromethane	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Bromoform	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	n-Butylbenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	sec-Butylbenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	tert-Butylbenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Carbon tetrachloride	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Chlorobenzene	1.15 U	1.15 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	2-Chlorotoluene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	4-Chlorotoluene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Dibromochloromethane	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,2-Dibromo-3-chloropropane	5.73 U	5.73 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,2-Dibromoethane (EDB)	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Dibromomethane	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,2-Dichlorobenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,3-Dichlorobenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,4-Dichlorobenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,2-Dichloroethane	0.716 U	0.716 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,2-Dichloropropane	2.86 U	2.86 UJ	ug/kg

Table 2
Summary of Qualified Data

Sample ID	Laboratory ID	Analyte	Laboratory Result	Final Result	Units
Amazon Lot 34-20	BSF0015-01	1,3-Dichloropropane	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	cis-1,3-Dichloropropene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	trans-1,3-Dichloropropene	0.716 U	0.716 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Ethylbenzene	2.29 U	2.29 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Hexachlorobutadiene	5.73 U	5.73 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	2-Hexanone	17.2 U	17.2 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Isopropylbenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	p-Isopropyltoluene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	4-Methyl-2-pentanone	17.2 U	17.2 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Naphthalene	5.73 U	5.73 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	n-Propylbenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Styrene	1.43 U	1.43 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,2,3-Trichlorobenzene	5.73 U	5.73 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,2,4-Trichlorobenzene	5.73 U	5.73 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,1,1,2-Tetrachloroethane	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,1,2,2-Tetrachloroethane	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Tetrachloroethene	1.15 U	1.15 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Toluene	0.859 U	0.859 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,1,2-Trichloroethane	1.15 U	1.15 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Trichloroethene	1.43 U	1.43 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,2,3-Trichloropropane	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,2,4-Trimethylbenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	1,3,5-Trimethylbenzene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	o-Xylene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	m,p-Xylene	2.86 U	2.86 UJ	ug/kg
Amazon Lot 34-20	BSF0015-01	Total Xylenes	5.73 U	5.73 UJ	ug/kg
Area2-G2-14	BSF0023-03	Gasoline Range Hydrocarbons	2.32 J	2.32 J	mg/kg
Area2-F2-14	BSF0023-04	Gasoline Range Hydrocarbons	3.02 J	3.02 J	mg/kg
DUP-17	BSF0033-10	Toluene	0.131 J	0.131 J	mg/kg
Area2-I1-14	BSF0033-11	Toluene	0.0552	0.0552 J	mg/kg
Area2-I1-14	BSF0033-11	Naphthalene	1.78 J	1.78 J	mg/kg
Area2-I1-11	BSF0033-12	Gasoline Range Hydrocarbons	2.40 J	2.40 J	mg/kg
Area2-G1-10	BSF0041-02	Naphthalene	0.0195 U	0.0195 UJ	mg/kg
Area2-H1-11.5	BSF0041-04	Ethylbenzene	0.0805 J	0.0805 J	mg/kg
Area2-H1-11.5	BSF0041-04	m,p-Xylene	0.167 J	0.167 J	mg/kg
Area2-F1-11.5	BSF0041-06	Benzene	0.126 J	0.126 J	mg/kg
Area2-F1-11.5	BSF0041-06	Ethylbenzene	0.168 J	0.168 J	mg/kg
Area2-F1-11.5	BSF0041-06	m,p-Xylene	0.438 J	0.438 J	mg/kg
Area2-F1-11.5	BSF0041-06	Xylenes (total)	0.548 J	0.548 J	mg/kg
Area2-F1-11.5	BSF0041-06	Gasoline Range Hydrocarbons	13.7 J	13.7 J	mg/kg
Area2-E1-14	BSF0041-08	Benzene	0.0307	0.0307 J	mg/kg
Area2-E1-14	BSF0041-08	Ethylbenzene	0.901	0.901 J	mg/kg
Area2-E1-14	BSF0041-08	Toluene	0.00466	0.00466 J	mg/kg
Area2-E1-14	BSF0041-08	Xylenes (total)	2.11	2.11 J	mg/kg
Area2-E1-12	BSF0041-09	Ethylbenzene	0.146 J	0.146 J	mg/kg
Area2-E1-12	BSF0041-09	Toluene	0.129 J	0.129 J	mg/kg
Area2-E1-12	BSF0041-09	m,p-Xylene	0.327 J	0.327 J	mg/kg
Area2-E1-12	BSF0041-09	Xylenes (total)	0.327 J	0.327 J	mg/kg
Area2-E4-14	BSF0041-14	Benzene	6.84	6.84 J	mg/kg
Area2-E4-14	BSF0041-14	Ethylbenzene	50.5	50.5 J	mg/kg
Area2-E4-14	BSF0041-14	Toluene	67.2	67.2 J	mg/kg
Area2-E4-14	BSF0041-14	Xylenes (total)	281	281 J	mg/kg
Area2-D2-14	BSF0041-15	Gasoline Range Hydrocarbons	2.27 J	2.27 J	mg/kg
Area2-A2-14	BSF0080-01	Gasoline Range Hydrocarbons	6.87	6.87 J	mg/kg
Area2-B2-14	BSF0080-03	Kerosene	37.5	37.5 J	mg/kg
Area2-C2-14	BSF0080-04	m,p-Xylene	0.0269 J	0.0269 J	mg/kg
Area2-C2-14	BSF0080-04	Xylenes (total)	0.0348 J	0.0348 J	mg/kg
Area2-C2-14	BSF0080-04	Gasoline Range Hydrocarbons	3.72 J	3.72 J	mg/kg
DUP-19	BSF0080-05	Kerosene	65.4	65.4 J	mg/kg
Area2-B3-14	BSF0112-03	Gasoline Range Hydrocarbons	1.84 J	1.84 J	mg/kg
Area2-A5-14	BSF0112-06	Gasoline Range Hydrocarbons	3.25 J	3.25 J	mg/kg
Area1-B3-4	BSF0125-01	Lead	12.6	12.6 J	mg/kg
Area2-A5-11	BSF0137-01	Lead	38.8	38.8 J	mg/kg
Area2-A5-9	BSF0137-02	Lead	147	147 J	mg/kg

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories Inc.

TestAmerica Tacoma

5755 8th Street East

Tacoma, WA 98424

Tel: (253)922-2310

TestAmerica Project ID: 580-13985-1

Client Job ID: WMCP Phase II

For:

URS Corporation

1501 4th Avenue, Suite 1400

Seattle, Washington 98101

Attn: Melanie Young



Authorized for release by:

7/8/2009 3:31 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature



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Qualifier Definition/Glossary

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Qualifiers

Fuels

Qualifier	Qualifier Description
Q12	Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.

- 1
- 2
- 3
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Executive Summary

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Client Sample ID: I-061209

Lab Sample ID: 580-13985-1

Analyte	Result	Qualifier	MRL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics	0.436	Q12	0.238	0.0170	mg/l	1.0		NWTPH-Dx	total

Client Sample ID: M-061209

Lab Sample ID: 580-13985-2

Analyte	Result	Qualifier	MRL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Client Sample ID: E01-061209

Lab Sample ID: 580-13985-3

Analyte	Result	Qualifier	MRL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Client Sample ID: E02-061209

Lab Sample ID: 580-13985-4

Analyte	Result	Qualifier	MRL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Client Sample ID: E03-061209

Lab Sample ID: 580-13985-5

Analyte	Result	Qualifier	MRL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Client Sample ID: EO1-061209

Lab Sample ID: PSF0796-03

Analyte	Result	Qualifier	MRL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Client Sample ID: EO2-061209

Lab Sample ID: PSF0796-04

Analyte	Result	Qualifier	MRL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Client Sample ID: EO3-061209

Lab Sample ID: PSF0796-05

Analyte	Result	Qualifier	MRL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Analytical Data

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Client Sample ID: I-061209

Date Collected: 06/12/09 07:40

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-1

Matrix: Water

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

Analyte	Result	Qualifier	MRL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	0.436	Q12	0.238	0.0170	mg/l		06/25/09 13:00	06/26/09 08:51	1.0
Heavy Oil Range Hydrocarbons	ND		0.476	0.0265	mg/l		06/25/09 13:00	06/26/09 08:51	1.0
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	81.2		50 - 150				06/25/09 13:00	06/26/09 08:51	1.0

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.0500	0.0100	mg/L			06/20/09 12:30	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150					06/20/09 12:30	1
Trifluorotoluene (Surr)	101		50 - 150					06/20/09 12:30	1
Ethylbenzene-d10	106		50 - 150					06/20/09 12:30	1
Fluorobenzene (Surr)	83		50 - 150					06/20/09 12:30	1
Toluene-d8 (Surr)	103		50 - 150					06/20/09 12:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.0570	ug/L			06/20/09 12:30	1
Toluene	ND		1.00	0.0760	ug/L			06/20/09 12:30	1
Ethylbenzene	ND		1.00	0.0610	ug/L			06/20/09 12:30	1
m-Xylene & p-Xylene	ND		2.00	0.107	ug/L			06/20/09 12:30	1
o-Xylene	ND		1.00	0.0800	ug/L			06/20/09 12:30	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	100		80 - 120					06/20/09 12:30	1
Toluene-d8 (Surr)	98		85 - 120					06/20/09 12:30	1
Ethylbenzene-d10	96		80 - 120					06/20/09 12:30	1
Trifluorotoluene (Surr)	97		80 - 120					06/20/09 12:30	1
4-Bromofluorobenzene (Surr)	93		75 - 120					06/20/09 12:30	1

Client Sample ID: M-061209

Date Collected: 06/12/09 07:50

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-2

Matrix: Water

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

Analyte	Result	Qualifier	MRL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.236	0.0169	mg/l		06/25/09 13:00	06/26/09 09:08	1.0
Heavy Oil Range Hydrocarbons	ND		0.472	0.0262	mg/l		06/25/09 13:00	06/26/09 09:08	1.0
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	76.8		50 - 150				06/25/09 13:00	06/26/09 09:08	1.0

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.0500	0.0100	mg/L			06/20/09 13:34	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150					06/20/09 13:34	1
Trifluorotoluene (Surr)	100		50 - 150					06/20/09 13:34	1
Ethylbenzene-d10	106		50 - 150					06/20/09 13:34	1

TestAmerica Tacoma

Analytical Data

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Client Sample ID: M-061209

Date Collected: 06/12/09 07:50

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-2

Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	83		50 - 150		06/20/09 13:34	1
Fluorobenzene (Surr)	83		50 - 150		06/20/09 13:34	1
Toluene-d8 (Surr)	104		50 - 150		06/20/09 13:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.0570	ug/L			06/20/09 13:34	1
Toluene	ND		1.00	0.0760	ug/L			06/20/09 13:34	1
Ethylbenzene	ND		1.00	0.0610	ug/L			06/20/09 13:34	1
m-Xylene & p-Xylene	ND		2.00	0.107	ug/L			06/20/09 13:34	1
o-Xylene	ND		1.00	0.0800	ug/L			06/20/09 13:34	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	101		80 - 120		06/20/09 13:34	1
Toluene-d8 (Surr)	98		85 - 120		06/20/09 13:34	1
Ethylbenzene-d10	95		80 - 120		06/20/09 13:34	1
Trifluorotoluene (Surr)	96		80 - 120		06/20/09 13:34	1
4-Bromofluorobenzene (Surr)	93		75 - 120		06/20/09 13:34	1

Client Sample ID: E01-061209

Date Collected: 06/12/09 08:00

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-3

Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.0500	0.0100	mg/L			06/20/09 14:38	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150		06/20/09 14:38	1
Trifluorotoluene (Surr)	99		50 - 150		06/20/09 14:38	1
Ethylbenzene-d10	106		50 - 150		06/20/09 14:38	1
Fluorobenzene (Surr)	84		50 - 150		06/20/09 14:38	1
Toluene-d8 (Surr)	105		50 - 150		06/20/09 14:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.0570	ug/L			06/20/09 14:38	1
Toluene	ND		1.00	0.0760	ug/L			06/20/09 14:38	1
Ethylbenzene	ND		1.00	0.0610	ug/L			06/20/09 14:38	1
m-Xylene & p-Xylene	ND		2.00	0.107	ug/L			06/20/09 14:38	1
o-Xylene	ND		1.00	0.0800	ug/L			06/20/09 14:38	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorobenzene (Surr)	101		80 - 120		06/20/09 14:38	1
Toluene-d8 (Surr)	98		85 - 120		06/20/09 14:38	1
Ethylbenzene-d10	95		80 - 120		06/20/09 14:38	1
Trifluorotoluene (Surr)	94		80 - 120		06/20/09 14:38	1
4-Bromofluorobenzene (Surr)	93		75 - 120		06/20/09 14:38	1

Analytical Data

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Client Sample ID: E02-061209

Date Collected: 06/12/09 08:15

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-4

Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.0500	0.0100	mg/L			06/20/09 14:59	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150					06/20/09 14:59	1
Trifluorotoluene (Surr)	99		50 - 150					06/20/09 14:59	1
Ethylbenzene-d10	106		50 - 150					06/20/09 14:59	1
Fluorobenzene (Surr)	83		50 - 150					06/20/09 14:59	1
Toluene-d8 (Surr)	104		50 - 150					06/20/09 14:59	1

Client Sample ID: E03-061209

Date Collected: 06/12/09 08:30

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-5

Matrix: Water

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.0500	0.0100	mg/L			06/20/09 15:20	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150					06/20/09 15:20	1
Trifluorotoluene (Surr)	99		50 - 150					06/20/09 15:20	1
Ethylbenzene-d10	106		50 - 150					06/20/09 15:20	1
Fluorobenzene (Surr)	84		50 - 150					06/20/09 15:20	1
Toluene-d8 (Surr)	105		50 - 150					06/20/09 15:20	1

Client Sample ID: EO1-061209

Date Collected: 06/12/09 08:00

Date Received: 06/25/09 09:00

Lab Sample ID: PSF0796-03

Matrix: Water

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

Analyte	Result	Qualifier	MRL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.238	0.0170	mg/l		06/25/09 13:00	06/25/09 20:44	1.0
Heavy Oil Range Hydrocarbons	ND		0.476	0.0265	mg/l		06/25/09 13:00	06/25/09 20:44	1.0
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	77.7		50 - 150				06/25/09 13:00	06/25/09 20:44	1.0

Client Sample ID: EO2-061209

Date Collected: 06/12/09 08:15

Date Received: 06/25/09 09:00

Lab Sample ID: PSF0796-04

Matrix: Water

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

Analyte	Result	Qualifier	MRL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.238	0.0170	mg/l		06/25/09 13:00	06/25/09 21:02	1.0
Heavy Oil Range Hydrocarbons	ND		0.476	0.0265	mg/l		06/25/09 13:00	06/25/09 21:02	1.0
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	90.7		50 - 150				06/25/09 13:00	06/25/09 21:02	1.0

Analytical Data

Client: URS Corporation
 Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Client Sample ID: EO3-061209

Lab Sample ID: PSF0796-05

Date Collected: 06/12/09 08:30

Matrix: Water

Date Received: 06/25/09 09:00

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

Analyte	Result	Qualifier	MRL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.236	0.0169	mg/l		06/25/09 13:00	06/26/09 09:26	1.0
Heavy Oil Range Hydrocarbons	ND		0.472	0.0262	mg/l		06/25/09 13:00	06/26/09 09:26	1.0
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	75.8		50 - 150				06/25/09 13:00	06/26/09 09:26	1.0

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Surrogate Summary

Client: URS Corporation
Project/Site: 1501 4th Avenue, Suite 1400

TestAmerica Job ID: 580-13985-1

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method - EPA 3510

Fuels

Matrix: Water

Prep Type: EPA 3510 Fuels

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		1COD (50-150)				
580-13985-1	I-061209	81.2				
580-13985-2	M-061209	76.8				
9060899-BLK1		78.0				
9060899-BS1		83.7				
9060899-BSD1		88.5				
PSF0796-03	E01-061209	77.7				
PSF0796-04	E02-061209	90.7				
PSF0796-05	E03-061209	75.8				

Surrogate Legend:
1COD = 1-Chlorooctadecane

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		BFB (50-150)	EBD10 (50-150)	FB (50-150)	TOL (50-150)	TFT (50-150)
580-13985-1	I-061209	101	106	83	103	101
580-13985-2	M-061209	100	102	94	97	105
580-13985-2	M-061209	100	102	94	98	106
580-13985-2	M-061209	101	106	83	104	100
580-13985-3	E01-061209	101	106	84	105	99
580-13985-4	E02-061209	101	106	83	104	99
580-13985-5	E03-061209	101	106	84	105	99
LCS 580-45218/4	LCS 580-45218/4	100	102	93	97	99
LCSD 580-45218/5	LCSD 580-45218/5	100	102	94	97	98
MB 580-45218/3	MB 580-45218/3	100	105	83	104	101

Surrogate Legend:
BFB = 4-Bromofluorobenzene (Surr)
TFT = Trifluorotoluene (Surr)
EBD10 = Ethylbenzene-d10
FB = Fluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		BFB (75-120)	EBD10 (80-120)	FB (80-120)	TOL (85-120)	TFT (80-120)
580-13985-1	I-061209	92	94	102	97	95
580-13985-1	I-061209	94	96	101	98	95
580-13985-1	I-061209	93	96	100	98	97
580-13985-2	M-061209	93	95	101	98	96
580-13985-3	E01-061209	93	95	101	98	94
LCS 580-45219/4	LCS 580-45219/4	92	94	101	97	88
MB 580-45219/3	MB 580-45219/3	93	95	101	98	96

Surrogate Summary

Client: URS Corporation
Project/Site: 1501 4th Avenue, Suite 1400

TestAmerica Job ID: 580-13985-1

Surrogate Legend:

TFT = Trifluorotoluene (Surr)
BFB = 4-Bromofluorobenzene (Surr)
FB = Fluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
EBD10 = Ethylbenzene-d10

- 1
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- 10
- 11
- 12
- 13

Quality Control Data

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method

Lab Sample ID: 9060899-BS1
Matrix: Water
Analysis Batch: 9060899_Analysis

Prep Type: total
Prep Batch: 9060899
% Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	% Rec.	Limits
Diesel Range Organics	2.50	2.18		mg/l	87.3	50 - 150
Heavy Oil Range Hydrocarbons	1.50	1.32		mg/l	87.9	50 - 150

Surrogate	LCS % Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	83.7		50 - 150

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-45218/3
Matrix: Water
Analysis Batch: 45218

Client Sample ID: MB 580-45218/3
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.0500	0.0100	mg/L			06/20/09 05:23	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		50 - 150		06/20/09 05:23	1
Trifluorotoluene (Surr)	101		50 - 150		06/20/09 05:23	1
Ethylbenzene-d10	105		50 - 150		06/20/09 05:23	1
Fluorobenzene (Surr)	83		50 - 150		06/20/09 05:23	1
Toluene-d8 (Surr)	104		50 - 150		06/20/09 05:23	1

Lab Sample ID: LCS 580-45218/4
Matrix: Water
Analysis Batch: 45218

Client Sample ID: LCS 580-45218/4
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	% Rec.	Limits
Gasoline	1.28	1.027		mg/L	80	79 - 110

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		50 - 150
Trifluorotoluene (Surr)	99		50 - 150
Ethylbenzene-d10	102		50 - 150
Fluorobenzene (Surr)	93		50 - 150
Toluene-d8 (Surr)	97		50 - 150

Lab Sample ID: LCSD 580-45218/5
Matrix: Water
Analysis Batch: 45218

Client Sample ID: LCSD 580-45218/5
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	% Rec.	Limits	RPD	RPD Limit
Gasoline	1.28	1.019		mg/L	80	79 - 110	1	8

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		50 - 150
Trifluorotoluene (Surr)	98		50 - 150
Ethylbenzene-d10	102		50 - 150

Quality Control Data

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-45218/5

Matrix: Water

Analysis Batch: 45218

Client Sample ID: LCSD 580-45218/5

Prep Type: Total/NA

Surrogate	LCSD		Limits
	% Recovery	Qualifier	
Fluorobenzene (Surr)	94		50 - 150
Fluorobenzene (Surr)	94		50 - 150
Toluene-d8 (Surr)	97		50 - 150

Lab Sample ID: 580-13985-2

Matrix: Water

Analysis Batch: 45218

Client Sample ID: M-061209

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	% Rec.	% Rec.
	Result	Qualifier		Result	Qualifier			
Gasoline	ND		1.28	1.075		mg/L	84	50 - 150

Surrogate	MS		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		50 - 150
Trifluorotoluene (Surr)	106		50 - 150
Ethylbenzene-d10	102		50 - 150
Fluorobenzene (Surr)	94		50 - 150
Toluene-d8 (Surr)	98		50 - 150

Lab Sample ID: 580-13985-2

Matrix: Water

Analysis Batch: 45218

Client Sample ID: M-061209

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	% Rec.	% Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier					
Gasoline	ND		1.28	1.082		mg/L	85	50 - 150	1	35

Surrogate	MSD		Limits
	% Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		50 - 150
Trifluorotoluene (Surr)	105		50 - 150
Ethylbenzene-d10	102		50 - 150
Fluorobenzene (Surr)	94		50 - 150
Toluene-d8 (Surr)	97		50 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-45219/3

Matrix: Water

Analysis Batch: 45219

Client Sample ID: MB 580-45219/3

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		1.00	0.0570	ug/L		06/20/09 05:23	1	
Toluene	ND		1.00	0.0760	ug/L		06/20/09 05:23	1	
Ethylbenzene	ND		1.00	0.0610	ug/L		06/20/09 05:23	1	
m-Xylene & p-Xylene	ND		2.00	0.107	ug/L		06/20/09 05:23	1	
o-Xylene	ND		1.00	0.0800	ug/L		06/20/09 05:23	1	

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Fluorobenzene (Surr)	101		80 - 120		06/20/09 05:23	1
Toluene-d8 (Surr)	98		85 - 120		06/20/09 05:23	1

TestAmerica Tacoma

Quality Control Data

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-45219/3

Matrix: Water

Analysis Batch: 45219

Client Sample ID: MB 580-45219/3

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Ethylbenzene-d10	95		80 - 120		06/20/09 05:23	1
Ethylbenzene-d10	95		80 - 120		06/20/09 05:23	1
Trifluorotoluene (Surr)	96		80 - 120		06/20/09 05:23	1
4-Bromofluorobenzene (Surr)	93		75 - 120		06/20/09 05:23	1

Lab Sample ID: LCS 580-45219/4

Matrix: Water

Analysis Batch: 45219

Client Sample ID: LCS 580-45219/4

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	% Rec.	% Rec.
						Limits
Benzene	25.0	25.35		ug/L	101	80 - 120
Toluene	25.0	24.93		ug/L	100	75 - 120
Ethylbenzene	25.0	26.62		ug/L	106	75 - 125
m-Xylene & p-Xylene	50.0	46.30		ug/L	93	75 - 130
o-Xylene	25.0	24.73		ug/L	99	80 - 120

Surrogate	LCS LCS		Limits
	% Recovery	Qualifier	
Fluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	97		85 - 120
Ethylbenzene-d10	94		80 - 120
Trifluorotoluene (Surr)	88		80 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120

Lab Sample ID: 580-13985-1

Matrix: Water

Analysis Batch: 45219

Client Sample ID: I-061209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	% Rec.	% Rec.
								Limits
Benzene	ND		20.1	21.48		ug/L	107	80 - 120
Toluene	ND		20.1	21.37		ug/L	106	75 - 120
Ethylbenzene	ND		20.1	22.93		ug/L	114	75 - 125
m-Xylene & p-Xylene	ND		40.1	40.20		ug/L	100	75 - 130
o-Xylene	ND		20.1	21.27		ug/L	106	80 - 120

Surrogate	MS MS		Limits
	% Recovery	Qualifier	
Fluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	98		85 - 120
Ethylbenzene-d10	96		80 - 120
Trifluorotoluene (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	94		75 - 120

Lab Sample ID: 580-13985-1

Matrix: Water

Analysis Batch: 45219

Client Sample ID: I-061209

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	% Rec.	% Rec.	RPD	RPD	Limit
								Limits	RPD	Limit	
Benzene	ND		20.1	21.21		ug/L	106	80 - 120	1	30	
Toluene	ND		20.1	20.74		ug/L	103	75 - 120	3	30	

TestAmerica Tacoma

Quality Control Data

Client: URS Corporation
 Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-13985-1

Matrix: Water

Analysis Batch: 45219

Client Sample ID: I-061209

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	% Rec.	RPD	RPD	
	Result	Qualifier	Added	Result	Qualifier		Limits		Limit	
Ethylbenzene	ND		20.1	22.55		ug/L	112	75 - 125	2	30
Ethylbenzene	ND		20.1	22.55		ug/L	112	75 - 125	2	30
m-Xylene & p-Xylene	ND		40.1	39.23		ug/L	97	75 - 130	2	30
o-Xylene	ND		20.1	20.83		ug/L	104	80 - 120	2	30

Surrogate	MSD	MSD	Limits
	% Recovery	Qualifier	
Fluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	97		85 - 120
Ethylbenzene-d10	94		80 - 120
Trifluorotoluene (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	92		75 - 120

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QC Association Summary

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Fuels

Prep Batch: 9060899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-13985-1	I-061209	total	Water	EPA 3510 Fuels	
580-13985-2	M-061209	total	Water	EPA 3510 Fuels	
9060899-BLK1		total	Water	EPA 3510 Fuels	
9060899-BS1		total	Water	EPA 3510 Fuels	
9060899-BSD1		total	Water	EPA 3510 Fuels	
PSF0796-03	EO1-061209	total	Water	EPA 3510 Fuels	
PSF0796-04	EO2-061209	total	Water	EPA 3510 Fuels	
PSF0796-05	EO3-061209	total	Water	EPA 3510 Fuels	

Analysis Batch: 9060899_Analysis

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-13985-1	I-061209	total	Water	NWTPH-Dx	
580-13985-2	M-061209	total	Water	NWTPH-Dx	
9060899-BLK1		total	Water	NWTPH-Dx	
9060899-BS1		total	Water	NWTPH-Dx	
9060899-BSD1		total	Water	NWTPH-Dx	
PSF0796-03	EO1-061209	total	Water	NWTPH-Dx	
PSF0796-04	EO2-061209	total	Water	NWTPH-Dx	
PSF0796-05	EO3-061209	total	Water	NWTPH-Dx	

GC VOA

Analysis Batch: 45218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
580-13985-1	I-061209	Total/NA	Water	NWTPH-Gx	
580-13985-2	M-061209	Total/NA	Water	NWTPH-Gx	
580-13985-2	M-061209	Total/NA	Water	NWTPH-Gx	
580-13985-2	M-061209	Total/NA	Water	NWTPH-Gx	
580-13985-3	E01-061209	Total/NA	Water	NWTPH-Gx	
580-13985-4	E02-061209	Total/NA	Water	NWTPH-Gx	
580-13985-5	E03-061209	Total/NA	Water	NWTPH-Gx	
MB 580-45218/3	MB 580-45218/3	Total/NA	Water	NWTPH-Gx	
LCS 580-45218/4	LCS 580-45218/4	Total/NA	Water	NWTPH-Gx	
LCSD 580-45218/5	LCSD 580-45218/5	Total/NA	Water	NWTPH-Gx	

GC/MS VOA

Analysis Batch: 45219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-45219/3	MB 580-45219/3	Total/NA	Water	8260B	
LCS 580-45219/4	LCS 580-45219/4	Total/NA	Water	8260B	
580-13985-1	I-061209	Total/NA	Water	8260B	
580-13985-1	I-061209	Total/NA	Water	8260B	
580-13985-1	I-061209	Total/NA	Water	8260B	
580-13985-2	M-061209	Total/NA	Water	8260B	
580-13985-3	E01-061209	Total/NA	Water	8260B	

Lab Chronicle

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Client Sample ID: I-061209

Date Collected: 06/12/09 07:40

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-1

Matrix: Water

Percent Solids:

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3510 Fuels		1	9060899	06/25/2009	NJ	TestAmerica Portland
total	Analysis	NWTPH-Dx		1.0	9060899_Analysis	06/26/2009	jtc	TestAmerica Portland
Total/NA	Analysis	NWTPH-Gx		1	45218	06/20/2009	JMB	TestAmerica Tacoma
Total/NA	Analysis	8260B		1	45219	06/20/2009	JMB	TestAmerica Tacoma

Client Sample ID: M-061209

Date Collected: 06/12/09 07:50

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-2

Matrix: Water

Percent Solids:

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3510 Fuels		1	9060899	06/25/2009	NJ	TestAmerica Portland
total	Analysis	NWTPH-Dx		1.0	9060899_Analysis	06/26/2009	jtc	TestAmerica Portland
Total/NA	Analysis	NWTPH-Gx		1	45218	06/20/2009	JMB	TestAmerica Tacoma
Total/NA	Analysis	8260B		1	45219	06/20/2009	JMB	TestAmerica Tacoma

Client Sample ID: E01-061209

Date Collected: 06/12/09 08:00

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-3

Matrix: Water

Percent Solids:

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	45218	06/20/2009	JMB	TestAmerica Tacoma
Total/NA	Analysis	8260B		1	45219	06/20/2009	JMB	TestAmerica Tacoma

Client Sample ID: E02-061209

Date Collected: 06/12/09 08:15

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-4

Matrix: Water

Percent Solids:

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	45218	06/20/2009	JMB	TestAmerica Tacoma

Client Sample ID: E03-061209

Date Collected: 06/12/09 08:30

Date Received: 06/12/09 17:05

Lab Sample ID: 580-13985-5

Matrix: Water

Percent Solids:

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	45218	06/20/2009	JMB	TestAmerica Tacoma

Lab Chronicle

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Client Sample ID: EO1-061209

Lab Sample ID: PSF0796-03

Date Collected: 06/12/09 08:00

Matrix: Water

Date Received: 06/25/09 09:00

Percent Solids:

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Analysis	NWTPH-Dx		1.0	9060899_Analysis	06/25/2009	jtc	TestAmerica Portland
total	Prep	EPA 3510 Fuels		1	9060899	06/25/2009	NJ	TestAmerica Portland

Client Sample ID: EO2-061209

Lab Sample ID: PSF0796-04

Date Collected: 06/12/09 08:15

Matrix: Water

Date Received: 06/25/09 09:00

Percent Solids:

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Analysis	NWTPH-Dx		1.0	9060899_Analysis	06/25/2009	jtc	TestAmerica Portland
total	Prep	EPA 3510 Fuels		1	9060899	06/25/2009	NJ	TestAmerica Portland

Client Sample ID: EO3-061209

Lab Sample ID: PSF0796-05

Date Collected: 06/12/09 08:30

Matrix: Water

Date Received: 06/25/09 09:00

Percent Solids:

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
total	Prep	EPA 3510 Fuels		1	9060899	06/25/2009	NJ	TestAmerica Portland
total	Analysis	NWTPH-Dx		1.0	9060899_Analysis	06/26/2009	jtc	TestAmerica Portland

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Method Summary

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Method	Method Description	Protocol	Laboratory
NWTPH-Dx	Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method		_PTL
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL TAC
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL TAC

Protocol References:

=

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

_PTL = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503) 906-9200

TAL TAC = TestAmerica Tacoma, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310



Sample Summary

Client: URS Corporation
Project/Site: WMCP Phase II

TestAmerica Job ID: 580-13985-1

Lab Sample ID	Client Sample ID	Matrix	Sampled	Received
580-13985-1	I-061209	Water	06/12/09 07:40	06/12/09 17:05
580-13985-2	M-061209	Water	06/12/09 07:50	06/12/09 17:05
580-13985-3	E01-061209	Water	06/12/09 08:00	06/12/09 17:05
580-13985-4	E02-061209	Water	06/12/09 08:15	06/12/09 17:05
580-13985-5	E03-061209	Water	06/12/09 08:30	06/12/09 17:05
PSF0796-03	EO1-061209	Water	06/12/09 08:00	06/25/09 09:00
PSF0796-04	EO2-061209	Water	06/12/09 08:15	06/25/09 09:00
PSF0796-05	EO3-061209	Water	06/12/09 08:30	06/25/09 09:00

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Login Sample Receipt Check List

Client: URS Corporation

Job Number: 580-13985-1

Login Number: 13985
Creator: Gamble, Cathy
List Number: 1

List Source: TestAmerica Tacoma

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

February 06, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 01/30/09 15:40.
The following list is a summary of the Work Orders contained in this report, generated on 02/06/09
16:56.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSA0265	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 16:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COP-T1-N	BSA0265-01	Soil	01/29/09 14:45	01/30/09 15:40
COP-T1-S	BSA0265-02	Soil	01/29/09 15:00	01/30/09 15:40
COP-T1-W	BSA0265-03	Water	01/30/09 10:00	01/30/09 15:40

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0265-01 (COP-T1-N)		Soil		Sampled: 01/29/09 14:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	12.7	----	5.99	mg/kg dry	1x	9B02016	02/02/09 11:08	02/02/09 14:42	
<i>Surrogate(s): 4-BFB (FID)</i>			131%		80 - 140 %	"				"
BSA0265-02 (COP-T1-S)		Soil		Sampled: 01/29/09 15:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.28	mg/kg dry	1x	9B03035	02/03/09 15:27	02/03/09 16:49	M1
<i>Surrogate(s): 4-BFB (FID)</i>			112%		80 - 140 %	"				"
BSA0265-03 (COP-T1-W)		Water		Sampled: 01/30/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	2480	----	250	ug/l	5x	9B03036	02/03/09 15:39	02/03/09 21:36	
<i>Surrogate(s): 4-BFB (FID)</i>			99.6%		70 - 145 %	1x				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0265-01 (COP-T1-N)		Soil			Sampled: 01/29/09 14:45					
Lube Oil Range Hydrocarbons	NWTPH-Dx	90.1	----	29.0	mg/kg dry	1x	9B03027	02/03/09 12:28	02/03/09 22:52	
<i>Surrogate(s): 2-FBP</i>			94.4%		60 - 135 %	"				"
<i>Octacosane</i>			97.7%		75 - 125 %	"				"
BSA0265-01RE1 (COP-T1-N)		Soil			Sampled: 01/29/09 14:45					
Diesel Range Hydrocarbons	NWTPH-Dx	16.8	----	11.6	mg/kg dry	1x	9B03027	02/03/09 12:28	02/04/09 15:58	Q6
<i>Surrogate(s): 2-FBP</i>			93.6%		60 - 135 %	"				"
<i>Octacosane</i>			96.0%		75 - 125 %	"				"
BSA0265-02 (COP-T1-S)		Soil			Sampled: 01/29/09 15:00					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	11.5	mg/kg dry	1x	9B03027	02/03/09 12:28	02/03/09 23:14	C
Lube Oil Range Hydrocarbons	"	38.4	----	28.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.4%		60 - 135 %	"				"
<i>Octacosane</i>			95.5%		75 - 125 %	"				"
BSA0265-03 (COP-T1-W)		Water			Sampled: 01/30/09 10:00					
Diesel Range Hydrocarbons	NWTPH-Dx	99.5	----	9.43	mg/l	20x	9B03020	02/03/09 11:49	02/04/09 20:56	Q10
Lube Oil Range Hydrocarbons	"	30.6	----	18.9	"	"	"	"	"	Q7
<i>Surrogate(s): 2-FBP</i>			29.2%		53 - 120 %	"				ZX
<i>Octacosane</i>			46.9%		68 - 123 %	"				ZX

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0265-01 (COP-T1-N)		Soil			Sampled: 01/29/09 14:45					
Arsenic	EPA 6020	2.63	----	0.569	mg/kg dry	1x	9B02018	02/02/09 11:33	02/03/09 08:31	
Barium	"	89.9	----	5.69	"	"	"	"	"	
Cadmium	"	ND	----	0.569	"	"	"	"	"	
Chromium	"	32.1	----	0.569	"	"	"	"	"	
Lead	"	41.1	----	0.569	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.112	"	"	9B04015	02/04/09 10:10	02/04/09 12:56	
Selenium	EPA 6020	ND	----	1.14	"	"	9B02018	02/02/09 11:33	02/03/09 08:31	
Silver	"	ND	----	0.569	"	"	"	"	"	
BSA0265-02 (COP-T1-S)		Soil			Sampled: 01/29/09 15:00					
Arsenic	EPA 6020	1.64	----	0.509	mg/kg dry	1x	9B02018	02/02/09 11:33	02/03/09 08:37	
Barium	"	81.6	----	5.09	"	"	"	"	"	
Cadmium	"	ND	----	0.509	"	"	"	"	"	
Chromium	"	45.3	----	0.509	"	"	"	"	"	
Lead	"	4.97	----	0.509	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.106	"	"	9B04015	02/04/09 10:10	02/04/09 12:59	
Selenium	EPA 6020	ND	----	1.02	"	"	9B02018	02/02/09 11:33	02/03/09 08:37	
Silver	"	ND	----	0.509	"	"	"	"	"	
BSA0265-03 (COP-T1-W)		Water			Sampled: 01/30/09 10:00					
Arsenic	EPA 6020	0.0214	----	0.00100	mg/l	1x	9B02013	02/02/09 09:43	02/03/09 12:53	
Cadmium	"	0.00217	----	0.00100	"	"	"	"	"	
Chromium	"	0.0419	----	0.00100	"	"	"	"	02/03/09 15:04	
Mercury	EPA 7470A	ND	----	0.000200	"	"	9B03033	02/03/09 13:23	02/04/09 10:33	M2
Selenium	EPA 6020	0.0502	----	0.00100	"	"	9B02013	02/02/09 09:43	02/03/09 15:04	
Silver	"	0.00116	----	0.00100	"	"	"	"	02/03/09 12:53	
BSA0265-03RE1 (COP-T1-W)		Water			Sampled: 01/30/09 10:00					
Barium	EPA 6020	0.446	----	0.0500	mg/l	5x	9B02013	02/02/09 09:43	02/03/09 12:59	
Lead	"	0.150	----	0.0100	"	10x	"	"	02/03/09 15:10	

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Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0265-01 (COP-T1-N)		Soil		Sampled: 01/29/09 14:45						
Benzene	EPA 8260B	ND	----	0.0243	mg/kg dry	1x	9B02042	02/02/09 19:18	02/03/09 02:04	
Ethylbenzene	"	ND	----	0.122	"	"	"	"	"	"
Toluene	"	ND	----	0.122	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.365	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			102%		75 - 125 %	"				"
<i>Toluene-d8</i>			103%		75 - 125 %	"				"
<i>4-BFB</i>			97.2%		75 - 125 %	"				"
BSA0265-02 (COP-T1-S)		Soil		Sampled: 01/29/09 15:00						
Benzene	EPA 8260B	ND	----	0.0211	mg/kg dry	1x	9B02042	02/02/09 19:18	02/03/09 02:30	
Ethylbenzene	"	ND	----	0.106	"	"	"	"	"	"
Toluene	"	ND	----	0.106	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.317	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			104%		75 - 125 %	"				"
<i>Toluene-d8</i>			102%		75 - 125 %	"				"
<i>4-BFB</i>			98.4%		75 - 125 %	"				"
BSA0265-03 (COP-T1-W)		Water		Sampled: 01/30/09 10:00						
Ethylbenzene	EPA 8260B	15.7	----	0.500	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 22:57	
Toluene	"	19.3	----	0.500	"	"	"	"	"	"
Total Xylenes	"	71.1	----	3.00	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			91.0%		80 - 120 %	"				"
<i>Toluene-d8</i>			99.2%		80 - 120 %	"				"
<i>4-BFB</i>			95.4%		80 - 120 %	"				"
BSA0265-03RE1 (COP-T1-W)		Water		Sampled: 01/30/09 10:00						
Benzene	EPA 8260B	121	----	5.00	ug/l	10x	9B04025	02/04/09 13:04	02/04/09 15:14	
<i>Surrogate(s): 1,2-DCA-d4</i>			96.2%		80 - 120 %	1x				"
<i>Toluene-d8</i>			97.4%		80 - 120 %	"				"
<i>4-BFB</i>			97.3%		80 - 120 %	"				"

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Kate Haney

Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 16:56

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0265-03 (COP-T1-W)		Water								
		Sampled: 01/30/09 10:00								
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B02024	02/02/09 12:57	02/02/09 22:57	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	"
Bromoform	"	ND	----	0.250	"	"	"	"	"	"
Bromomethane	"	ND	----	2.00	"	"	"	"	"	"
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	"
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	"
Chloroethane	"	ND	----	1.00	"	"	"	"	"	"
Chloroform	"	ND	----	0.200	"	"	"	"	"	"
Chloromethane	"	ND	----	1.00	"	"	"	"	"	"
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	"
1,2-Dichlorobenzene	"	10.7	----	0.200	"	"	"	"	"	"
1,3-Dichlorobenzene	"	0.390	----	0.200	"	"	"	"	"	"
1,4-Dichlorobenzene	"	2.91	----	0.200	"	"	"	"	"	"
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	"
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	"
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	"
trans-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	"
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	"
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	"
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	"
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	"
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	"
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	"
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	"
Vinyl chloride	"	ND	----	0.200	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>91.0%</i>		<i>76 - 138 %</i>	"			"
<i>Toluene-d8</i>				<i>99.2%</i>		<i>80 - 120 %</i>	"			"
<i>4-BFB</i>				<i>95.4%</i>		<i>80 - 120 %</i>	"			"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 16:56

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0265-03RE1 (COP-T1-W)		Water			Sampled: 01/30/09 10:00					
cis-1,2-Dichloroethene	EPA 8260B	ND	----	0.200	ug/l	1x	9B05014	02/05/09 14:25	02/05/09 16:00	
Tetrachloroethene	"	ND	----	0.200	"	"	"	"	"	"
Trichloroethene	"	ND	----	0.200	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>96.0%</i>		<i>76 - 138 %</i>	"			"
<i>Toluene-d8</i>				<i>94.9%</i>		<i>80 - 120 %</i>	"			"
<i>4-BFB</i>				<i>91.9%</i>		<i>80 - 120 %</i>	"			"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 16:56

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0265-01 (COP-T1-N)		Soil		Sampled: 01/29/09 14:45						
Acenaphthene	8270C-SIM	ND	----	0.0115	mg/kg dry	1x	9B03026	02/03/09 12:13	02/03/09 23:32	
Acenaphthylene	"	ND	----	0.0115	"	"	"	"	"	"
Anthracene	"	ND	----	0.0115	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0115	"	"	"	"	"	"
Benzo (a) pyrene	"	0.0510	----	0.0115	"	"	"	"	"	"
Benzo (b) fluoranthene	"	0.0325	----	0.0115	"	"	"	"	"	"
Benzo (k) fluoranthene	"	0.0255	----	0.0115	"	"	"	"	"	"
Benzo (ghi) perylene	"	0.0502	----	0.0115	"	"	"	"	"	"
Chrysene	"	0.0307	----	0.0115	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0115	"	"	"	"	"	"
Fluoranthene	"	0.0151	----	0.0115	"	"	"	"	"	"
Fluorene	"	ND	----	0.0115	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	0.0372	----	0.0115	"	"	"	"	"	"
1-Methylnaphthalene	"	0.0245	----	0.0115	"	"	"	"	"	"
2-Methylnaphthalene	"	0.0296	----	0.0115	"	"	"	"	"	"
Naphthalene	"	0.0208	----	0.0115	"	"	"	"	"	"
Phenanthrene	"	0.0119	----	0.0115	"	"	"	"	"	"
Pyrene	"	0.0266	----	0.0115	"	"	"	"	"	"
<i>Surrogate(s): p-Terphenyl-d14</i>			81.3%		46 - 125 %	"				"

BSA0265-02 (COP-T1-S)		Soil		Sampled: 01/29/09 15:00						
Acenaphthene	8270C-SIM	ND	----	0.0116	mg/kg dry	1x	9B03026	02/03/09 12:13	02/03/09 23:58	
Acenaphthylene	"	ND	----	0.0116	"	"	"	"	"	"
Anthracene	"	ND	----	0.0116	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0116	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0116	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0116	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0116	"	"	"	"	"	"
Benzo (ghi) perylene	"	0.0205	----	0.0116	"	"	"	"	"	"
Chrysene	"	ND	----	0.0116	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0116	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0116	"	"	"	"	"	"
Fluorene	"	ND	----	0.0116	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	0.0131	----	0.0116	"	"	"	"	"	"
1-Methylnaphthalene	"	ND	----	0.0116	"	"	"	"	"	"
2-Methylnaphthalene	"	ND	----	0.0116	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0116	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0116	"	"	"	"	"	"
Pyrene	"	ND	----	0.0116	"	"	"	"	"	"
<i>Surrogate(s): p-Terphenyl-d14</i>			77.5%		46 - 125 %	"				"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 16:56

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSA0265-01 (COP-T1-N)		Soil			Sampled: 01/29/09 14:45					
Dry Weight	BSOPSP003R0 8	85.4	----	1.00	%	1x	9B02033	02/02/09 16:34	02/03/09 00:00	
BSA0265-02 (COP-T1-S)		Soil			Sampled: 01/29/09 15:00					
Dry Weight	BSOPSP003R0 8	85.5	----	1.00	%	1x	9B02033	02/02/09 16:34	02/03/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02016 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9B02016-BLK1)													Extracted: 02/02/09 11:08			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	02/02/09 11:12			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.7%</i>			<i>Limits: 80-140%</i>	<i>"</i>							02/02/09 11:12			
LCS (9B02016-BS1)													Extracted: 02/02/09 11:08			
Gasoline Range Hydrocarbons	NWTPH-Gx	48.4	---	5.00	mg/kg wet	1x	--	50.0	96.8%	(80-120)	--	--	02/02/09 11:45			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>			<i>Limits: 80-140%</i>	<i>"</i>							02/02/09 11:45			
Duplicate (9B02016-DUP1)													QC Source: BSA0260-01		Extracted: 02/02/09 11:08	
Gasoline Range Hydrocarbons	NWTPH-Gx	40.2	---	8.19	mg/kg dry	1x	41.1	--	--	--	2.29% (40)	--	02/02/09 14:10			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 185%</i>			<i>Limits: 80-140%</i>	<i>"</i>							02/02/09 14:10	ZX		
Matrix Spike (9B02016-MS1)													QC Source: BSA0260-01		Extracted: 02/02/09 11:08	
Gasoline Range Hydrocarbons	NWTPH-Gx	126	---	8.19	mg/kg dry	1x	41.1	54.7	156%	(75-130)	--	--	02/02/09 15:15	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 200%</i>			<i>Limits: 80-140%</i>	<i>"</i>							02/02/09 15:15	ZX		
Matrix Spike Dup (9B02016-MSD1)													QC Source: BSA0260-01		Extracted: 02/02/09 11:08	
Gasoline Range Hydrocarbons	NWTPH-Gx	121	---	8.19	mg/kg dry	1x	41.1	54.7	147%	(75-130)	3.85% (25)	--	02/02/09 15:47	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 206%</i>			<i>Limits: 80-140%</i>	<i>"</i>							02/02/09 15:47	ZX		

QC Batch: 9B03035 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9B03035-BLK1)													Extracted: 02/03/09 15:27			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	02/03/09 15:44			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.6%</i>			<i>Limits: 80-140%</i>	<i>"</i>							02/03/09 15:44			
LCS (9B03035-BS1)													Extracted: 02/03/09 15:27			
Gasoline Range Hydrocarbons	NWTPH-Gx	52.9	---	5.00	mg/kg wet	1x	--	50.0	106%	(80-120)	--	--	02/03/09 16:17			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.5%</i>			<i>Limits: 80-140%</i>	<i>"</i>							02/03/09 16:17			
Duplicate (9B03035-DUP1)													QC Source: BSA0265-02		Extracted: 02/03/09 15:27	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.28	mg/kg dry	1x	ND	--	--	--	10.5% (40)	--	02/03/09 17:21			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 111%</i>			<i>Limits: 80-140%</i>	<i>"</i>							02/03/09 17:21			
Matrix Spike (9B03035-MS1)													QC Source: BSA0265-02		Extracted: 02/03/09 15:27	
Gasoline Range Hydrocarbons	NWTPH-Gx	67.6	---	5.28	mg/kg dry	1x	4.54	44.3	142%	(75-130)	--	--	02/03/09 18:57	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 122%</i>			<i>Limits: 80-140%</i>	<i>"</i>							02/03/09 18:57			

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03036 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B03036-BLK1)										Extracted: 02/03/09 15:39				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	02/03/09 20:00	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.3%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>02/03/09 20:00</i>	
LCS (9B03036-BS1)										Extracted: 02/03/09 15:39				
Gasoline Range Hydrocarbons	NWTPH-Gx	1080	---	50.0	ug/l	1x	--	1000	108%	(80-120)	--	--	02/03/09 20:32	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.9%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>02/03/09 20:32</i>	
LCS Dup (9B03036-BSD1)										Extracted: 02/03/09 15:39				
Gasoline Range Hydrocarbons	NWTPH-Gx	1050	---	50.0	ug/l	1x	--	1000	105%	(80-120)	2.74%	(25)	02/03/09 21:04	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.8%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>02/03/09 21:04</i>	

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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03020 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B03020-BLK1)													Extracted: 02/03/09 11:49	
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	02/04/09 19:50	
Lube Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i>Octacosane</i>		<i>84.6%</i>		<i>53-120%</i>		<i>"</i>								<i>02/04/09 19:50</i>
		<i>98.1%</i>		<i>68-123%</i>		<i>"</i>								<i>"</i>

LCS (9B03020-BS1)													Extracted: 02/03/09 11:49	
Diesel Range Hydrocarbons	NWTPH-Dx	1.79	---	0.250	mg/l	1x	--	2.00	89.4%	(65-120)	--	--	02/04/09 20:12	
Lube Oil Range Hydrocarbons	"	2.07	---	0.500	"	"	--	"	103%	(70-120)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i>Octacosane</i>		<i>84.5%</i>		<i>53-120%</i>		<i>"</i>								<i>02/04/09 20:12</i>
		<i>90.4%</i>		<i>68-123%</i>		<i>"</i>								<i>"</i>

LCS Dup (9B03020-BSD1)													Extracted: 02/03/09 11:49	
Diesel Range Hydrocarbons	NWTPH-Dx	1.81	---	0.250	mg/l	1x	--	2.00	90.7%	(65-120)	1.43% (25)	--	02/04/09 20:34	
Lube Oil Range Hydrocarbons	"	2.07	---	0.500	"	"	--	"	104%	(70-120)	0.361% (40)	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i>Octacosane</i>		<i>85.3%</i>		<i>53-120%</i>		<i>"</i>								<i>02/04/09 20:34</i>
		<i>90.5%</i>		<i>68-123%</i>		<i>"</i>								<i>"</i>

QC Batch: 9B03027 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B03027-BLK1)													Extracted: 02/03/09 12:28	
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	02/03/09 21:24	
Lube Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i>Octacosane</i>		<i>91.9%</i>		<i>60-135%</i>		<i>"</i>								<i>02/03/09 21:24</i>
		<i>94.8%</i>		<i>75-125%</i>		<i>"</i>								<i>"</i>

Blank (9B03027-BLK2)													Extracted: 02/03/09 12:28	
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	02/04/09 14:06	
Lube Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i>Octacosane</i>		<i>92.3%</i>		<i>60-135%</i>		<i>"</i>								<i>02/04/09 14:06</i>
		<i>95.5%</i>		<i>75-125%</i>		<i>"</i>								<i>"</i>

LCS (9B03027-BS1)													Extracted: 02/03/09 12:28	
Lube Oil Range Hydrocarbons	NWTPH-Dx	62.9	---	25.0	mg/kg wet	1x	--	66.7	94.4%	(63-125)	--	--	02/03/09 21:46	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>		<i>Limits:</i>										
<i>Octacosane</i>		<i>89.0%</i>		<i>60-135%</i>		<i>"</i>								<i>02/03/09 21:46</i>
		<i>95.9%</i>		<i>75-125%</i>		<i>"</i>								<i>"</i>

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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03027 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9B03027-BS2)													Extracted: 02/03/09 12:28	
Diesel Range Hydrocarbons	NWTPH-Dx	65.2	---	10.0	mg/kg wet	1x	--	66.7	97.8%	(75-125)	--	--	02/04/09 14:28	
Lube Oil Range Hydrocarbons	"	62.5	---	25.0	"	"	--	"	93.8%	(63-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.3%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>02/04/09 14:28</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>96.3%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	
Duplicate (9B03027-DUP1)													QC Source: BSB0006-01 Extracted: 02/03/09 12:28	
Lube Oil Range Hydrocarbons	NWTPH-Dx	252	---	35.0	mg/kg dry	1x	173	--	--	--	37.4% (40)	--	02/03/09 22:08	Q7
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>92.5%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>02/03/09 22:08</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	
Duplicate (9B03027-DUP2)													QC Source: BSB0006-01 Extracted: 02/03/09 12:28	
Diesel Range Hydrocarbons	NWTPH-Dx	2480	---	140	mg/kg dry	10x	2110	--	--	--	16.3% (40)	--	02/04/09 14:51	ZX
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>205%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>02/04/09 14:51</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>95.6%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	
Matrix Spike (9B03027-MS1)													QC Source: BSB0006-01 Extracted: 02/03/09 12:28	
Lube Oil Range Hydrocarbons	NWTPH-Dx	262	---	35.0	mg/kg dry	1x	173	93.3	96.0%	(26-150)	--	--	02/03/09 22:29	Q7
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.2%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>02/03/09 22:29</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	
Matrix Spike (9B03027-MS2)													QC Source: BSB0006-01 Extracted: 02/03/09 12:28	
Diesel Range Hydrocarbons	NWTPH-Dx	2000	---	140	mg/kg dry	10x	2110	93.3	-116%	(40-145)	--	--	02/04/09 15:13	MHA
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>201%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>02/04/09 15:13</i>	ZX
<i>Octacosane</i>		<i>Recovery:</i>	<i>92.2%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02013 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B02013-BLK1)

Extracted: 02/02/09 09:43

Lead	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	02/03/09 08:49	
Barium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	

LCS (9B02013-BS1)

Extracted: 02/02/09 09:43

Silver	EPA 6020	0.0782	---	0.00100	mg/l	1x	--	0.0800	97.7%	(80-120)	--	--	02/03/09 08:55	
Barium	"	0.0775	---	0.0100	"	"	--	"	96.9%	"	--	--	"	
Chromium	"	0.0775	---	0.00100	"	"	--	"	96.8%	"	--	--	"	
Lead	"	0.0775	---	0.00100	"	"	--	"	96.9%	"	--	--	"	
Arsenic	"	0.0793	---	0.00100	"	"	--	"	99.1%	"	--	--	"	
Cadmium	"	0.0781	---	0.00100	"	"	--	"	97.7%	"	--	--	"	
Selenium	"	0.0818	---	0.00100	"	"	--	"	102%	"	--	--	"	

Duplicate (9B02013-DUP1)

QC Source: BSA0232-01

Extracted: 02/02/09 09:43

Silver	EPA 6020	ND	---	0.00100	mg/l	1x	ND	--	--	--	NR (20)	--	02/03/09 09:49	
Barium	"	ND	---	0.0100	"	"	ND	--	--	--	2.78%	"	"	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Chromium	"	0.00505	---	0.00100	"	"	0.00544	--	--	--	7.44%	"	"	
Selenium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Arsenic	"	0.228	---	0.00100	"	"	0.230	--	--	--	1.01%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	9.23%	"	"	

Matrix Spike (9B02013-MS1)

QC Source: BSA0232-01

Extracted: 02/02/09 09:43

Cadmium	EPA 6020	0.0785	---	0.00100	mg/l	1x	ND	0.0800	98.1%	(75-125)	--	--	02/03/09 09:07	
Silver	"	0.0746	---	0.00100	"	"	ND	"	93.3%	"	--	--	"	
Lead	"	0.0794	---	0.00100	"	"	0.000340	"	98.9%	"	--	--	"	
Chromium	"	0.0825	---	0.00100	"	"	0.00544	"	96.3%	"	--	--	"	
Arsenic	"	0.318	---	0.00100	"	"	0.230	"	110%	"	--	--	"	
Selenium	"	0.0827	---	0.00100	"	"	ND	"	103%	"	--	--	"	
Barium	"	0.0845	---	0.0100	"	"	0.00568	"	98.5%	"	--	--	"	

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Kate Haney

Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02013 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Matrix Spike Dup (9B02013-MSD1)			QC Source: BSA0232-01					Extracted: 02/02/09 09:43							
Chromium	EPA 6020	0.0799	---	0.00100	mg/l	1x	0.00544	0.0800	93.0%	(75-125)	3.19%	(20)	02/03/09 09:43		
Selenium	"	0.0803	---	0.00100	"	"	ND	"	100%	"	2.90%	"	"		
Lead	"	0.0751	---	0.00100	"	"	0.000340	"	93.5%	"	5.60%	"	"		
Silver	"	0.0737	---	0.00100	"	"	ND	"	92.2%	"	1.23%	"	"		
Cadmium	"	0.0762	---	0.00100	"	"	ND	"	95.3%	"	2.96%	"	"		
Barium	"	0.0799	---	0.0100	"	"	0.00568	"	92.7%	"	5.66%	"	"		
Arsenic	"	0.310	---	0.00100	"	"	0.230	"	100%	"	2.39%	"	"		

Post Spike (9B02013-PS1)			QC Source: BSA0232-01					Extracted: 02/02/09 09:43							
Barium	EPA 6020	0.106	---		ug/ml	1x	0.00568	0.100	100%	(80-120)	--	--	02/03/09 09:01		
Arsenic	"	0.341	---		"	"	0.230	0.0995	111%	"	--	--	"		
Chromium	"	0.107	---		"	"	0.00544	0.100	101%	"	--	--	"		
Lead	"	0.101	---		"	"	0.000340	"	100%	"	--	--	"		
Cadmium	"	0.102	---		"	"	0.0000200	"	102%	"	--	--	"		
Selenium	"	0.106	---		"	"	0.000250	"	106%	"	--	--	"		
Silver	"	0.0974	---		"	"	ND	"	97.4%	"	--	--	"		

QC Batch: 9B02018 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9B02018-BLK1)								Extracted: 02/02/09 11:33							
Cadmium	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	02/03/09 07:38		
Silver	"	ND	---	0.515	"	"	--	--	--	--	--	--	"		
Chromium	"	ND	---	0.515	"	"	--	--	--	--	--	--	"		
Lead	"	ND	---	0.515	"	"	--	--	--	--	--	--	"		
Barium	"	ND	---	5.15	"	"	--	--	--	--	--	--	"		
Selenium	"	ND	---	1.03	"	"	--	--	--	--	--	--	"		
Arsenic	"	ND	---	0.515	"	"	--	--	--	--	--	--	"		

LCS (9B02018-BS1)								Extracted: 02/02/09 11:33							
Chromium	EPA 6020	40.4	---	0.500	mg/kg wet	1x	--	40.0	101%	(80-120)	--	--	02/03/09 07:44		
Lead	"	40.2	---	0.500	"	"	--	"	100%	"	--	--	"		
Cadmium	"	39.6	---	0.500	"	"	--	"	98.9%	"	--	--	"		
Silver	"	40.5	---	0.500	"	"	--	"	101%	"	--	--	"		
Selenium	"	40.9	---	1.00	"	"	--	"	102%	"	--	--	"		
Arsenic	"	40.0	---	0.500	"	"	--	"	100%	"	--	--	"		
Barium	"	40.4	---	5.00	"	"	--	"	101%	"	--	--	"		

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02018 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Duplicate (9B02018-DUP1)			QC Source: BSA0260-01					Extracted: 02/02/09 11:33							
Barium	EPA 6020	141	---	4.36	mg/kg dry	1x	137	--	--	--	2.83%	(20)	02/03/09 08:01		
Arsenic	"	5.61	---	0.436	"	"	5.09	--	--	--	9.82%	"	"		
Chromium	"	15.2	---	0.436	"	"	14.3	--	--	--	5.94%	"	"		
Selenium	"	ND	---	0.872	"	"	ND	--	--	--	15.3%	"	"		
Lead	"	11.0	---	0.436	"	"	10.2	--	--	--	7.67%	"	"		
Silver	"	ND	---	0.436	"	"	ND	--	--	--	30.3%	"	"	R4	
Cadmium	"	ND	---	0.436	"	"	ND	--	--	--	28.2%	"	"	R4	
Matrix Spike (9B02018-MS1)			QC Source: BSA0260-01					Extracted: 02/02/09 11:33							
Cadmium	EPA 6020	33.1	---	0.431	mg/kg dry	1x	0.296	34.5	95.2%	(75-125)	--	--	02/03/09 07:55		
Selenium	"	30.5	---	0.862	"	"	0.378	"	87.2%	"	--	--	"		
Lead	"	44.0	---	0.431	"	"	10.2	"	98.1%	"	--	--	"		
Arsenic	"	34.5	---	0.431	"	"	5.09	"	85.4%	"	--	--	"		
Silver	"	27.1	---	0.431	"	"	0.0739	"	78.3%	"	--	--	"		
Chromium	"	47.4	---	0.431	"	"	14.3	"	95.9%	"	--	--	"		
Matrix Spike (9B02018-MS2)			QC Source: BSA0260-01					Extracted: 02/02/09 11:33							
Barium	EPA 6020	174	---	8.62	mg/kg dry	2x	137	34.5	108%	(75-125)	--	--	02/03/09 09:19		
Post Spike (9B02018-PS1)			QC Source: BSA0260-01					Extracted: 02/02/09 11:33							
Selenium	EPA 6020	0.0973	---		ug/ml	1x	0.000920	0.100	96.4%	(80-120)	--	--	02/03/09 07:50		
Silver	"	0.0948	---		"	"	0.000180	"	94.6%	"	--	--	"		
Lead	"	0.121	---		"	"	0.0247	"	95.9%	"	--	--	"		
Arsenic	"	0.109	---		"	"	0.0124	0.0995	97.5%	"	--	--	"		
Cadmium	"	0.0976	---		"	"	0.000720	0.100	96.9%	"	--	--	"		
Chromium	"	0.130	---		"	"	0.0348	"	94.5%	"	--	--	"		
Post Spike (9B02018-PS2)			QC Source: BSA0260-01					Extracted: 02/02/09 11:33							
Barium	EPA 6020	0.430	---		ug/ml	2x	0.334	0.100	96.8%	(80-120)	--	--	02/03/09 09:13		

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03033	Water Preparation Method: EPA 7470A
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B03033-BLK1)								Extracted: 02/03/09 13:23						
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	02/04/09 10:21	
LCS (9B03033-BS1)								Extracted: 02/03/09 13:23						
Mercury	EPA 7470A	0.00492	---	0.000200	mg/l	1x	--	0.00500	98.5%	(80-120)	--	--	02/04/09 10:24	
LCS Dup (9B03033-BSD1)								Extracted: 02/03/09 13:23						
Mercury	EPA 7470A	0.00509	---	0.000200	mg/l	1x	--	0.00500	102%	(80-120)	3.28% (20)		02/04/09 10:26	
Matrix Spike (9B03033-MS1)				QC Source: BSA0265-03				Extracted: 02/03/09 13:23						
Mercury	EPA 7470A	0.0000670	---	0.000200	mg/l	1x	ND	0.00500	1.34%	(75-125)	--	--	02/04/09 10:29	M2
Matrix Spike Dup (9B03033-MSD1)				QC Source: BSA0265-03				Extracted: 02/03/09 13:23						
Mercury	EPA 7470A	0.000198	---	0.000200	mg/l	1x	ND	0.00500	3.95%	(75-125)	98.8% (20)		02/04/09 10:31	M2

QC Batch: 9B04015	Soil Preparation Method: EPA 7471A
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B04015-BLK1)								Extracted: 02/04/09 10:10						
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	02/04/09 12:44	
LCS (9B04015-BS1)								Extracted: 02/04/09 10:10						
Mercury	EPA 7471A	0.664	---	0.0999	mg/kg wet	1x	--	0.666	99.7%	(80-120)	--	--	02/04/09 12:46	
LCS Dup (9B04015-BSD1)								Extracted: 02/04/09 10:10						
Mercury	EPA 7471A	0.657	---	0.0992	mg/kg wet	1x	--	0.661	99.3%	(80-120)	1.17% (20)		02/04/09 12:49	
Matrix Spike (9B04015-MS1)				QC Source: BSA0265-01				Extracted: 02/04/09 10:10						
Mercury	EPA 7471A	0.804	---	0.105	mg/kg dry	1x	0.102	0.703	99.9%	(80-125)	--	--	02/04/09 12:51	
Matrix Spike Dup (9B04015-MSD1)				QC Source: BSA0265-01				Extracted: 02/04/09 10:10						
Mercury	EPA 7471A	0.869	---	0.107	mg/kg dry	1x	0.102	0.712	108%	(80-125)	7.73% (30)		02/04/09 12:54	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02024 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B02024-BLK1)

Extracted: 02/02/09 12:57

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	02/02/09 16:41	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>95.2%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/02/09 16:41</i>	
	<i>Toluene-d8</i>		<i>100%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>104%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS (9B02024-BS1)

Extracted: 02/02/09 12:57

Benzene	EPA 8260B	38.3	---	0.500	ug/l	1x	--	40.0	95.8%	(80-120)	--	--	02/02/09 14:12	
Ethylbenzene	"	38.2	---	0.500	"	"	--	"	95.5%	(75-125)	--	--	"	
Toluene	"	37.7	---	0.500	"	"	--	"	94.2%	"	--	--	"	
Total Xylenes	"	117	---	3.00	"	"	--	120	97.3%	"	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>89.6%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/02/09 14:12</i>	
	<i>Toluene-d8</i>		<i>95.2%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>103%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS Dup (9B02024-BS1)

Extracted: 02/02/09 12:57

Benzene	EPA 8260B	37.4	---	0.500	ug/l	1x	--	40.0	93.5%	(80-120)	2.43%	(20)	02/02/09 14:41	
Ethylbenzene	"	38.9	---	0.500	"	"	--	"	97.4%	(75-125)	1.89%	"	"	
Toluene	"	38.0	---	0.500	"	"	--	"	95.1%	"	0.951%	"	"	
Total Xylenes	"	120	---	3.00	"	"	--	120	99.9%	"	2.62%	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>87.0%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/02/09 14:41</i>	
	<i>Toluene-d8</i>		<i>97.1%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>101%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02042 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B02042-BLK1)

Extracted: 02/02/09 19:18

Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	02/03/09 01:37	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>02/03/09 01:37</i>	
<i>Toluene-d8</i>			<i>104%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>97.8%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9B02042-BS1)

Extracted: 02/02/09 19:18

Benzene	EPA 8260B	3.55	---	0.0200	mg/kg wet	1x	--	4.00	88.8%	(75-125)	--	--	02/03/09 00:09	
Ethylbenzene	"	3.51	---	0.100	"	"	--	"	87.7%	"	--	--	"	
Toluene	"	3.44	---	0.100	"	"	--	"	85.9%	"	--	--	"	
Total Xylenes	"	10.2	---	0.300	"	"	--	12.0	85.4%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>97.8%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>02/03/09 00:09</i>	
<i>Toluene-d8</i>			<i>98.4%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.8%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9B02042-BSD1)

Extracted: 02/02/09 19:18

Benzene	EPA 8260B	3.82	---	0.0200	mg/kg wet	1x	--	4.00	95.4%	(75-125)	7.17%	(20)	02/03/09 00:36	
Ethylbenzene	"	3.78	---	0.100	"	"	--	"	94.5%	"	7.46%	"	"	
Toluene	"	3.70	---	0.100	"	"	--	"	92.6%	"	7.50%	"	"	
Total Xylenes	"	11.0	---	0.300	"	"	--	12.0	91.4%	"	6.85%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.3%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>02/03/09 00:36</i>	
<i>Toluene-d8</i>			<i>100%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B04025 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B04025-BLK1)

Extracted: 02/04/09 13:04

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	02/04/09 14:48	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>97.9%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/04/09 14:48</i>	
	<i>Toluene-d8</i>		<i>97.4%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>95.7%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS (9B04025-BS1)

Extracted: 02/04/09 13:04

Benzene	EPA 8260B	42.5	---	0.500	ug/l	1x	--	40.0	106%	(80-120)	--	--	02/04/09 13:22	
Ethylbenzene	"	45.5	---	0.500	"	"	--	"	114%	(75-125)	--	--	"	
Toluene	"	40.1	---	0.500	"	"	--	"	100%	"	--	--	"	
Total Xylenes	"	123	---	3.00	"	"	--	120	103%	"	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>88.0%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/04/09 13:22</i>	
	<i>Toluene-d8</i>		<i>97.7%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>96.2%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS Dup (9B04025-BSD1)

Extracted: 02/04/09 13:04

Benzene	EPA 8260B	41.2	---	0.500	ug/l	1x	--	40.0	103%	(80-120)	3.06% (20)		02/04/09 13:47	
Ethylbenzene	"	44.6	---	0.500	"	"	--	"	112%	(75-125)	1.91%	"	"	
Toluene	"	40.5	---	0.500	"	"	--	"	101%	"	0.993%	"	"	
Total Xylenes	"	120	---	3.00	"	"	--	120	99.6%	"	2.95%	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>88.2%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/04/09 13:47</i>	
	<i>Toluene-d8</i>		<i>97.2%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>100%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	02/06/09 16:56

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02024 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B02024-BLK1)													Extracted: 02/02/09 12:57	
Bromochloromethane	EPA 8260B	ND	---	0.250	ug/l	1x	--	--	--	--	--	--	02/02/09 16:41	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 95.2%</i>		<i>Limits: 76-138%</i>		<i>"</i>							<i>02/02/09 16:41</i>	
<i>Toluene-d8</i>		<i>100%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>104%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02024 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9B02024-BS1)													Extracted: 02/02/09 12:57	
Chlorobenzene	EPA 8260B	38.3	---	0.200	ug/l	1x	--	40.0	95.8%	(80-120)	--	--	02/02/09 14:12	
1,1-Dichloroethene	"	35.2	---	0.200	"	"	--	"	87.9%	"	--	--	"	
Trichloroethene	"	36.6	---	0.200	"	"	--	"	91.5%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>89.6%</i>	<i>Limits: 76-138%</i>		<i>"</i>								<i>02/02/09 14:12</i>
<i>Toluene-d8</i>		<i>95.2%</i>	<i>80-120%</i>		<i>"</i>								<i>"</i>	
<i>4-BFB</i>		<i>103%</i>	<i>80-120%</i>		<i>"</i>								<i>"</i>	

LCS Dup (9B02024-BSD1)													Extracted: 02/02/09 12:57	
Chlorobenzene	EPA 8260B	39.0	---	0.200	ug/l	1x	--	40.0	97.6%	(80-120)	1.89%	(20)	02/02/09 14:41	
1,1-Dichloroethene	"	34.3	---	0.200	"	"	--	"	85.7%	"	2.53%	"	"	
Trichloroethene	"	36.2	---	0.200	"	"	--	"	90.6%	"	1.04%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>87.0%</i>	<i>Limits: 76-138%</i>		<i>"</i>								<i>02/02/09 14:41</i>
<i>Toluene-d8</i>		<i>97.1%</i>	<i>80-120%</i>		<i>"</i>								<i>"</i>	
<i>4-BFB</i>		<i>101%</i>	<i>80-120%</i>		<i>"</i>								<i>"</i>	

QC Batch: 9B05014 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B05014-BLK1)													Extracted: 02/05/09 10:25	
Bromochloromethane	EPA 8260B	ND	---	0.250	ug/l	1x	--	--	--	--	--	--	02/05/09 15:35	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B05014 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9B05014-BLK1)													Extracted: 02/05/09 10:25			
cis-1,3-Dichloropropene	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	02/05/09 15:35			
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"			
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"			
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"			
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 99.7%</i>	<i>Limits: 76-138%</i>	<i>"</i>	<i>02/05/09 15:35</i>
<i>Toluene-d8</i>													<i>97.9%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.2%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>

LCS (9B05014-BS1)													Extracted: 02/05/09 10:25			
Chlorobenzene	EPA 8260B	37.9	---	0.200	ug/l	1x	--	40.0	94.8%	(80-120)	--	--	02/05/09 14:08			
1,1-Dichloroethene	"	49.4	---	0.200	"	"	--	"	123%	"	--	--	"	L1		
Trichloroethene	"	42.4	---	0.200	"	"	--	"	106%	"	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 91.0%</i>	<i>Limits: 76-138%</i>	<i>"</i>	<i>02/05/09 14:08</i>
<i>Toluene-d8</i>													<i>97.0%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>96.4%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>

LCS Dup (9B05014-BSD1)													Extracted: 02/05/09 10:25			
Chlorobenzene	EPA 8260B	37.2	---	0.200	ug/l	1x	--	40.0	93.0%	(80-120)	1.84% (20)		02/05/09 14:34			
1,1-Dichloroethene	"	45.8	---	0.200	"	"	--	"	114%	"	7.61%	"	"			
Trichloroethene	"	39.7	---	0.200	"	"	--	"	99.3%	"	6.60%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 87.8%</i>	<i>Limits: 76-138%</i>	<i>"</i>	<i>02/05/09 14:34</i>
<i>Toluene-d8</i>													<i>96.0%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.0%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 16:56

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03026

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9B03026-BLK1)													Extracted: 02/03/09 12:13			
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	02/03/09 20:03			
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): p-Terphenyl-d14</i>													<i>Recovery: 92.4%</i>	<i>Limits: 46-125%</i>	<i>"</i>	<i>02/03/09 20:03</i>

LCS (9B03026-BS1)

Extracted: 02/03/09 12:13

Acenaphthene	8270C-SIM	0.678	---	0.0100	mg/kg wet	1x	--	0.667	102%	(65-130)	--	--	02/03/09 20:29	
Acenaphthylene	"	0.713	---	0.0100	"	"	--	"	107%	(67-142)	--	--	"	
Anthracene	"	0.781	---	0.0100	"	"	--	"	117%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.641	---	0.0100	"	"	--	"	96.2%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.732	---	0.0100	"	"	--	"	110%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.665	---	0.0100	"	"	--	"	99.8%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.803	---	0.0100	"	"	--	"	120%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.717	---	0.0100	"	"	--	"	108%	"	--	--	"	
Chrysene	"	0.762	---	0.0100	"	"	--	"	114%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.735	---	0.0100	"	"	--	"	110%	(56-149)	--	--	"	
Fluoranthene	"	0.714	---	0.0100	"	"	--	"	107%	(72-145)	--	--	"	
Fluorene	"	0.784	---	0.0100	"	"	--	"	118%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.719	---	0.0100	"	"	--	"	108%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.540	---	0.0100	"	"	--	"	80.9%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.556	---	0.0100	"	"	--	"	83.4%	(56-124)	--	--	"	
Naphthalene	"	0.534	---	0.0100	"	"	--	"	80.2%	(56-146)	--	--	"	
Phenanthrene	"	0.760	---	0.0100	"	"	--	"	114%	(64-139)	--	--	"	
Pyrene	"	0.605	---	0.0100	"	"	--	"	90.8%	(58-149)	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 02/06/09 16:56

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03026 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9B03026-BS1)

Extracted: 02/03/09 12:13

Surrogate(s): p-Terphenyl-d14 Recovery: 75.6% Limits: 46-125% 1x 02/03/09 20:29

Matrix Spike (9B03026-MS1)

QC Source: BSA0265-02

Extracted: 02/03/09 12:13

Acenaphthene	8270C-SIM	0.856	---	0.0581	mg/kg dry	5x	ND	0.775	111%	(64-140)	--	--	02/03/09 20:55	
Acenaphthylene	"	0.864	---	0.0581	"	"	0.00186	"	111%	(66-150)	--	--	"	
Anthracene	"	0.918	---	0.0581	"	"	ND	"	118%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.744	---	0.0581	"	"	0.00341	"	95.7%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.756	---	0.0581	"	"	0.0105	"	96.3%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.707	---	0.0581	"	"	0.00395	"	90.7%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.891	---	0.0581	"	"	0.00418	"	114%	"	--	--	"	
Benzo (ghi) perylene	"	0.835	---	0.0581	"	"	0.0205	"	105%	"	--	--	"	
Chrysene	"	0.946	---	0.0581	"	"	0.00658	"	121%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.786	---	0.0581	"	"	0.00263	"	101%	(55-150)	--	--	"	
Fluoranthene	"	0.856	---	0.0581	"	"	0.00480	"	110%	(70-150)	--	--	"	
Fluorene	"	0.968	---	0.0581	"	"	ND	"	125%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.792	---	0.0581	"	"	0.0131	"	101%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.772	---	0.0581	"	"	0.00387	"	99.2%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.785	---	0.0581	"	"	0.00349	"	101%	(50-140)	--	--	"	
Naphthalene	"	0.782	---	0.0581	"	"	0.00318	"	101%	(47-147)	--	--	"	
Phenanthrene	"	0.921	---	0.0581	"	"	0.00263	"	119%	(56-150)	--	--	"	
Pyrene	"	0.707	---	0.0581	"	"	0.00689	"	90.4%	(57-150)	--	--	"	

Surrogate(s): p-Terphenyl-d14 Recovery: 82.3% Limits: 46-125% " 02/03/09 20:55

Matrix Spike Dup (9B03026-MSD1)

QC Source: BSA0265-02

Extracted: 02/03/09 12:13

Acenaphthene	8270C-SIM	0.857	---	0.0577	mg/kg dry	5x	ND	0.770	111%	(64-140)	0.0610% (41)		02/03/09 21:21	
Acenaphthylene	"	0.867	---	0.0577	"	"	0.00186	"	112%	(66-150)	0.277% "		"	
Anthracene	"	0.929	---	0.0577	"	"	ND	"	121%	(54-150)	1.22% "		"	
Benzo (a) anthracene	"	0.754	---	0.0577	"	"	0.00341	"	97.6%	(57-150)	1.30% "		"	
Benzo (a) pyrene	"	0.774	---	0.0577	"	"	0.0105	"	99.2%	(55-150)	2.27% (35)		"	
Benzo (b) fluoranthene	"	0.705	---	0.0577	"	"	0.00395	"	91.1%	(54-150)	0.223% (41)		"	
Benzo (k) fluoranthene	"	0.888	---	0.0577	"	"	0.00418	"	115%	"	0.313% "		"	
Benzo (ghi) perylene	"	0.875	---	0.0577	"	"	0.0205	"	111%	"	4.58% "		"	
Chrysene	"	0.944	---	0.0577	"	"	0.00658	"	122%	(65-150)	0.251% (40)		"	
Dibenz (a,h) anthracene	"	0.816	---	0.0577	"	"	0.00263	"	106%	(55-150)	3.78% (41)		"	
Fluoranthene	"	0.872	---	0.0577	"	"	0.00480	"	113%	(70-150)	1.80% "		"	
Fluorene	"	0.979	---	0.0577	"	"	ND	"	127%	(74-150)	1.20% (44)		"	
Indeno (1,2,3-cd) pyrene	"	0.830	---	0.0577	"	"	0.0131	"	106%	(50-150)	4.62% "		"	
1-Methylnaphthalene	"	0.796	---	0.0577	"	"	0.00387	"	103%	(45-145)	3.03% (41)		"	
2-Methylnaphthalene	"	0.811	---	0.0577	"	"	0.00349	"	105%	(50-140)	3.26% "		"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 16:56
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03026 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9B03026-MSD1)			QC Source: BSA0265-02				Extracted: 02/03/09 12:13							
Naphthalene	8270C-SIM	0.779	---	0.0577	mg/kg dry	5x	0.00318	0.770	101%	(47-147)	0.413% (41)		02/03/09 21:21	
Phenanthrene	"	0.929	---	0.0577	"	"	0.00263	"	120%	(56-150)	0.842% "		"	
Pyrene	"	0.737	---	0.0577	"	"	0.00689	"	94.9%	(57-150)	4.10% "		"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 85.2%	Limits: 46-125%		"		02/03/09 21:21							

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	02/06/09 16:56
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02033 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B02033-BLK1)										Extracted: 02/02/09 16:34				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	02/03/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 16:56

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 6020	Water	X	X
EPA 7470A	Water	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
EPA 8260B	Water	X	X
NWTPH-Dx	Soil		X
NWTPH-Dx	Water		X
NWTPH-Gx	Soil		X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 16:56

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- L - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- L1 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2 - The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- Q10 - Hydrocarbon pattern most closely resembles a blend of Diesel and Gasoline Range Hydrocarbons.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- Q7 - The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSA0265**

CLIENT: URS CORPORATION			INVOICE TO:										TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD.																			
REPORT TO: TY GRIFFITH ADDRESS: CENTURY SQUARE, 1501 4th AVE, SUITE 1400 SEATTLE WA 98101-1616			P.O. NUMBER:																													
PHONE: 206 438 2700 FAX: 206 438 2699			PRESERVATIVE										<input type="checkbox"/> OTHER Specify:																			
PROJECT NAME: WMLP PHASE 2			REQUESTED ANALYSES										* Turnaround Requests less than standard may incur Rush Charges. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>MATRIX (W, S, O)</th> <th># OF CONT.</th> <th>LOCATION/ COMMENTS</th> <th>TA WO ID</th> </tr> <tr> <td></td> <td style="text-align: center;">8</td> <td></td> <td style="text-align: center;">01</td> </tr> <tr> <td></td> <td style="text-align: center;">5</td> <td></td> <td style="text-align: center;">02</td> </tr> <tr> <td></td> <td style="text-align: center;">5</td> <td></td> <td style="text-align: center;">03</td> </tr> </table>				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID		8		01		5		02		5		03
MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS															TA WO ID															
	8		01																													
	5		02																													
	5		03																													
PROJECT NUMBER: 33959381																																
SAMPLED BY: JOHN BAKER																																
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BTEX	TPH-GX	TPH-DX	METALS	CHLORINATED SOLVENTS																										
1 COP-T1-N	01-29-09/1445	X	X	X																												
2 COP-T1-S	01-29-09/1500	X	X	X																												
3 COP-T1-W	01-30-09/1000	X	X	X	X	X																										
4																																
5																																
6																																
7																																
8																																
9																																
10																																
RELEASED BY: JLB			FIRM: URS Corporation			DATE: 01-30-09			RECEIVED BY: Francisco Luna, Jr			FIRM: TA-SEA			DATE: 1/30/09																	
PRINT NAME: JOHN BAKER						TIME:			PRINT NAME:			TIME: 1450																				
RELEASED BY:			FIRM:			DATE:			RECEIVED BY:			FIRM:			DATE:																	
PRINT NAME:						TIME:			PRINT NAME:			TIME:																				
ADDITIONAL REMARKS:												@Lab 1540 w/b		TEMP: 8.3°C		PAGE 1 OF 1																

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: 384

Date: 1/30/09

1/31/09 FL.
Date: 1/30/09 FL.

Date: 02-02

Work Order No. BSA0265

Time: 1540

Time: 17 1250

Time: 1030

Client: _____

Initials: FL

Initials: FL FL

Initials: CW

Project: _____

Container Type:

COC Seals:

Packing Material

Cooler

Ship Container ? Sign By

Bubble Bags Styrofoam

Box

On Bottles 1/30/09 Date

Foam Packs

None/Other _____

None

None/Other _____

Refrigerant:

Received Via: Bill#

Gel Ice Pack _____

Fed Ex Client

Loose Ice _____

UPS TA Courier

None/Other _____

DHL Mid Valley

Senvoy TDP

GS Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 8.3 °C or NA

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N not indicated

Adequate Volume? or N _____
(for tests requested)

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

February 06, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 02/02/09 15:00.
The following list is a summary of the Work Orders contained in this report, generated on 02/06/09
15:15.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSB0004	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COP-T2-S	BSB0004-01	Soil	01/30/09 15:25	02/02/09 15:00
COP-T2-N	BSB0004-02	Soil	01/30/09 15:45	02/02/09 15:00

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0004-01 (COP-T2-S)		Soil		Sampled: 01/30/09 15:25						
Gasoline Range Hydrocarbons	NWTPH-Gx	949	----	54.4	mg/kg dry	10x	9B03035	02/03/09 15:27	02/04/09 00:15	
<i>Surrogate(s): 4-BFB (FID)</i>			<i>123%</i>		<i>80 - 140 %</i>	<i>1x</i>				<i>"</i>
BSB0004-02 (COP-T2-N)		Soil		Sampled: 01/30/09 15:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	73.9	----	5.49	mg/kg dry	1x	9B03035	02/03/09 15:27	02/03/09 23:44	
<i>Surrogate(s): 4-BFB (FID)</i>			<i>124%</i>		<i>80 - 140 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0004-01 (COP-T2-S)		Soil		Sampled: 01/30/09 15:25						
Lube Oil Range Hydrocarbons	NWTPH-Dx	37.3	----	29.9	mg/kg dry	1x	9B03027	02/03/09 12:28	02/04/09 00:42	Q7
<i>Surrogate(s): 2-FBP</i>			96.0%		60 - 135 %	"				"
<i>Octacosane</i>			93.7%		75 - 125 %	"				"
BSB0004-01RE1 (COP-T2-S)		Soil		Sampled: 01/30/09 15:25						
Diesel Range Hydrocarbons	NWTPH-Dx	74.8	----	11.9	mg/kg dry	1x	9B03027	02/03/09 12:28	02/04/09 18:22	Q1
<i>Surrogate(s): 2-FBP</i>			95.4%		60 - 135 %	"				"
<i>Octacosane</i>			93.0%		75 - 125 %	"				"
BSB0004-02 (COP-T2-N)		Soil		Sampled: 01/30/09 15:45						
Diesel Range Hydrocarbons	NWTPH-Dx	172	----	59.6	mg/kg dry	5x	9B03027	02/03/09 12:28	02/04/09 02:31	
Lube Oil Range Hydrocarbons	"	371	----	149	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			139%		60 - 135 %	"				ZX
<i>Octacosane</i>			99.1%		75 - 125 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0004-01RE1 (COP-T2-S)		Soil			Sampled: 01/30/09 15:25					
Ethylbenzene	EPA 8260B	14.4	----	1.09	mg/kg dry	10x	9B05032	02/05/09 20:02	02/05/09 22:17	
Total Xylenes	"	38.1	----	3.26	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>104%</i>		<i>75 - 125 %</i>	<i>1x</i>				<i>"</i>
<i>Toluene-d8</i>			<i>101%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSB0004-01RE2 (COP-T2-S)		Soil			Sampled: 01/30/09 15:25					
Benzene	EPA 8260B	2.19	----	0.0217	mg/kg dry	1x	9B05032	02/05/09 20:02	02/05/09 23:09	
Toluene	"	ND	----	0.109	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>109%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSB0004-02RE2 (COP-T2-N)		Soil			Sampled: 01/30/09 15:45					
Benzene	EPA 8260B	0.364	----	0.0220	mg/kg dry	1x	9B05032	02/05/09 20:02	02/05/09 23:35	
Ethylbenzene	"	0.996	----	0.110	"	"	"	"	"	
Toluene	"	0.194	----	0.110	"	"	"	"	"	
Total Xylenes	"	4.07	----	0.329	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>99.6%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:15

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0004-01 (COP-T2-S)		Soil		Sampled: 01/30/09 15:25						
Acenaphthene	8270C-SIM	0.0197	----	0.0120	mg/kg dry	1x	9B03026	02/03/09 12:13	02/04/09 00:25	
Acenaphthylene	"	ND	----	0.0120	"	"	"	"	"	"
Anthracene	"	0.0190	----	0.0120	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0120	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0120	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0120	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0120	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0120	"	"	"	"	"	"
Chrysene	"	0.0191	----	0.0120	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0120	"	"	"	"	"	"
Fluoranthene	"	0.0213	----	0.0120	"	"	"	"	"	"
Fluorene	"	0.0329	----	0.0120	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0120	"	"	"	"	"	"
1-Methylnaphthalene	"	0.882	----	0.0120	"	"	"	"	"	"
Naphthalene	"	1.14	----	0.0120	"	"	"	"	"	"
Phenanthrene	"	0.104	----	0.0120	"	"	"	"	"	"
Pyrene	"	0.0246	----	0.0120	"	"	"	"	"	"
<i>Surrogate(s): p-Terphenyl-d14</i>			76.5%		46 - 125 %	"				"

BSB0004-01RE1 (COP-T2-S)

Soil

Sampled: 01/30/09 15:25

2-Methylnaphthalene	8270C-SIM	1.62	----	0.120	mg/kg dry	10x	9B03026	02/03/09 12:13	02/03/09 22:40	
<i>Surrogate(s): p-Terphenyl-d14</i>			84.2%		46 - 125 %	"				"

BSB0004-02 (COP-T2-N)

Soil

Sampled: 01/30/09 15:45

Acenaphthene	8270C-SIM	ND	----	0.0121	mg/kg dry	1x	9B03026	02/03/09 12:13	02/04/09 00:51	
Acenaphthylene	"	ND	----	0.0121	"	"	"	"	"	"
Anthracene	"	ND	----	0.0121	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0121	"	"	"	"	"	"
Benzo (a) pyrene	"	0.141	----	0.0121	"	"	"	"	"	"
Benzo (b) fluoranthene	"	0.0411	----	0.0121	"	"	"	"	"	"
Benzo (k) fluoranthene	"	0.0128	----	0.0121	"	"	"	"	"	"
Benzo (ghi) perylene	"	0.0698	----	0.0121	"	"	"	"	"	"
Chrysene	"	0.0779	----	0.0121	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	0.0209	----	0.0121	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0121	"	"	"	"	"	"
Fluorene	"	ND	----	0.0121	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	0.0328	----	0.0121	"	"	"	"	"	"
1-Methylnaphthalene	"	0.0425	----	0.0121	"	"	"	"	"	"
2-Methylnaphthalene	"	0.0640	----	0.0121	"	"	"	"	"	"
Naphthalene	"	0.0224	----	0.0121	"	"	"	"	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	02/06/09 15:15
	Project Manager:	Ty Griffith	

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0004-02 (COP-T2-N)		Soil		Sampled: 01/30/09 15:45						
Phenanthrene	"	0.0268	----	0.0121	"	"	"	"	"	
Pyrene	"	0.0456	----	0.0121	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			83.3%		46 - 125 %	"				

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0004-01 (COP-T2-S)		Soil			Sampled: 01/30/09 15:25					
Dry Weight	BSOPSP003R0 8	84.0	----	1.00	%	1x	9B02033	02/02/09 16:34	02/03/09 00:00	
BSB0004-02 (COP-T2-N)		Soil			Sampled: 01/30/09 15:45					
Dry Weight	BSOPSP003R0 8	82.5	----	1.00	%	1x	9B02033	02/02/09 16:34	02/03/09 00:00	

TestAmerica Seattle



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03035 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9B03035-BLK1)										Extracted: 02/03/09 15:27						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	02/03/09 15:44			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.6%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>02/03/09 15:44</i>			
LCS (9B03035-BS1)										Extracted: 02/03/09 15:27						
Gasoline Range Hydrocarbons	NWTPH-Gx	52.9	---	5.00	mg/kg wet	1x	--	50.0	106%	(80-120)	--	--	02/03/09 16:17			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.5%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>02/03/09 16:17</i>			
Duplicate (9B03035-DUP1)										QC Source: BSA0265-02		Extracted: 02/03/09 15:27				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.28	mg/kg dry	1x	ND	--	--	--	10.5% (40)	--	02/03/09 17:21			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 111%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>02/03/09 17:21</i>			
Matrix Spike (9B03035-MS1)										QC Source: BSA0265-02		Extracted: 02/03/09 15:27				
Gasoline Range Hydrocarbons	NWTPH-Gx	67.6	---	5.28	mg/kg dry	1x	4.54	44.3	142%	(75-130)	--	--	02/03/09 18:57	M1		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 122%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>02/03/09 18:57</i>			

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03027 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B03027-BLK1)

Extracted: 02/03/09 12:28

Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	02/03/09 21:24	
Lube Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 91.9%		Limits: 60-135%	"								02/03/09 21:24	
Octacosane		94.8%		75-125%	"								"	

Blank (9B03027-BLK2)

Extracted: 02/03/09 12:28

Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	02/04/09 14:06	
Lube Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 92.3%		Limits: 60-135%	"								02/04/09 14:06	
Octacosane		95.5%		75-125%	"								"	

LCS (9B03027-BS1)

Extracted: 02/03/09 12:28

Lube Oil Range Hydrocarbons	NWTPH-Dx	62.9	---	25.0	mg/kg wet	1x	--	66.7	94.4%	(63-125)	--	--	02/03/09 21:46	
Surrogate(s): 2-FBP		Recovery: 89.0%		Limits: 60-135%	"								02/03/09 21:46	
Octacosane		95.9%		75-125%	"								"	

LCS (9B03027-BS2)

Extracted: 02/03/09 12:28

Diesel Range Hydrocarbons	NWTPH-Dx	65.2	---	10.0	mg/kg wet	1x	--	66.7	97.8%	(75-125)	--	--	02/04/09 14:28	
Lube Oil Range Hydrocarbons	"	62.5	---	25.0	"	"	--	"	93.8%	(63-125)	--	--	"	
Surrogate(s): 2-FBP		Recovery: 89.3%		Limits: 60-135%	"								02/04/09 14:28	
Octacosane		96.3%		75-125%	"								"	

Duplicate (9B03027-DUP1)

QC Source: BSB0006-01

Extracted: 02/03/09 12:28

Lube Oil Range Hydrocarbons	NWTPH-Dx	252	---	35.0	mg/kg dry	1x	173	--	--	--	37.4% (40)	--	02/03/09 22:08	Q7
Surrogate(s): 2-FBP		Recovery: 92.5%		Limits: 60-135%	"								02/03/09 22:08	
Octacosane		110%		75-125%	"								"	

Duplicate (9B03027-DUP2)

QC Source: BSB0006-01

Extracted: 02/03/09 12:28

Diesel Range Hydrocarbons	NWTPH-Dx	2480	---	140	mg/kg dry	10x	2110	--	--	--	16.3% (40)	--	02/04/09 14:51	ZX
Surrogate(s): 2-FBP		Recovery: 205%		Limits: 60-135%	"								02/04/09 14:51	
Octacosane		95.6%		75-125%	"								"	

Matrix Spike (9B03027-MS1)

QC Source: BSB0006-01

Extracted: 02/03/09 12:28

Lube Oil Range Hydrocarbons	NWTPH-Dx	262	---	35.0	mg/kg dry	1x	173	93.3	96.0%	(26-150)	--	--	02/03/09 22:29	Q7
Surrogate(s): 2-FBP		Recovery: 93.2%		Limits: 60-135%	"								02/03/09 22:29	
Octacosane		110%		75-125%	"								"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	02/06/09 15:15
	Project Manager:	Ty Griffith	

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03027 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9B03027-MS2)			QC Source: BSB0006-01			Extracted: 02/03/09 12:28								
Diesel Range Hydrocarbons	NWTPH-Dx	2000	---	140	mg/kg dry	10x	2110	93.3	-116%	(40-145)	--	--	02/04/09 15:13	MHA
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 201%</i>		<i>Limits: 60-135%</i>								<i>02/04/09 15:13</i>		ZX
<i>Octacosane</i>		<i>92.2%</i>		<i>75-125%</i>								<i>"</i>		

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B05032 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B05032-BLK1)

Extracted: 02/05/09 20:02

Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	02/05/09 21:51	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.4%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>02/05/09 21:51</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.5%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9B05032-BS1)

Extracted: 02/05/09 20:02

Benzene	EPA 8260B	3.86	---	0.0200	mg/kg wet	1x	--	4.00	96.5%	(75-125)	--	--	02/05/09 20:28	
Ethylbenzene	"	3.70	---	0.100	"	"	--	"	92.6%	"	--	--	"	
Toluene	"	3.64	---	0.100	"	"	--	"	90.9%	"	--	--	"	
Total Xylenes	"	10.8	---	0.300	"	"	--	12.0	89.7%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.2%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>02/05/09 20:28</i>	
<i>Toluene-d8</i>			<i>98.2%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9B05032-BSD1)

Extracted: 02/05/09 20:02

Benzene	EPA 8260B	3.63	---	0.0200	mg/kg wet	1x	--	4.00	90.7%	(75-125)	6.25% (20)		02/05/09 20:54	
Ethylbenzene	"	3.45	---	0.100	"	"	--	"	86.4%	"	6.96%	"	"	
Toluene	"	3.37	---	0.100	"	"	--	"	84.4%	"	7.48%	"	"	
Total Xylenes	"	10.1	---	0.300	"	"	--	12.0	84.1%	"	6.41%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>98.7%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>02/05/09 20:54</i>	
<i>Toluene-d8</i>			<i>97.9%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:15

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03026

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9B03026-BLK1)													Extracted: 02/03/09 12:13			
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	02/03/09 20:03			
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): p-Terphenyl-d14</i>													<i>Recovery: 92.4%</i>	<i>Limits: 46-125%</i>	<i>"</i>	<i>02/03/09 20:03</i>

LCS (9B03026-BS1)

Extracted: 02/03/09 12:13

Acenaphthene	8270C-SIM	0.678	---	0.0100	mg/kg wet	1x	--	0.667	102%	(65-130)	--	--	02/03/09 20:29	
Acenaphthylene	"	0.713	---	0.0100	"	"	--	"	107%	(67-142)	--	--	"	
Anthracene	"	0.781	---	0.0100	"	"	--	"	117%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.641	---	0.0100	"	"	--	"	96.2%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.732	---	0.0100	"	"	--	"	110%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.665	---	0.0100	"	"	--	"	99.8%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.803	---	0.0100	"	"	--	"	120%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.717	---	0.0100	"	"	--	"	108%	"	--	--	"	
Chrysene	"	0.762	---	0.0100	"	"	--	"	114%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.735	---	0.0100	"	"	--	"	110%	(56-149)	--	--	"	
Fluoranthene	"	0.714	---	0.0100	"	"	--	"	107%	(72-145)	--	--	"	
Fluorene	"	0.784	---	0.0100	"	"	--	"	118%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.719	---	0.0100	"	"	--	"	108%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.540	---	0.0100	"	"	--	"	80.9%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.556	---	0.0100	"	"	--	"	83.4%	(56-124)	--	--	"	
Naphthalene	"	0.534	---	0.0100	"	"	--	"	80.2%	(56-146)	--	--	"	
Phenanthrene	"	0.760	---	0.0100	"	"	--	"	114%	(64-139)	--	--	"	
Pyrene	"	0.605	---	0.0100	"	"	--	"	90.8%	(58-149)	--	--	"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03026 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9B03026-BS1) Extracted: 02/03/09 12:13
Surrogate(s): p-Terphenyl-d14 Recovery: 75.6% Limits: 46-125% Ix 02/03/09 20:29

Matrix Spike (9B03026-MS1) QC Source: BSA0265-02 Extracted: 02/03/09 12:13

Acenaphthene	8270C-SIM	0.856	---	0.0581	mg/kg dry	5x	ND	0.775	111%	(64-140)	--	--	02/03/09 20:55	
Acenaphthylene	"	0.864	---	0.0581	"	"	0.00186	"	111%	(66-150)	--	--	"	
Anthracene	"	0.918	---	0.0581	"	"	ND	"	118%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.744	---	0.0581	"	"	0.00341	"	95.7%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.756	---	0.0581	"	"	0.0105	"	96.3%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.707	---	0.0581	"	"	0.00395	"	90.7%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.891	---	0.0581	"	"	0.00418	"	114%	"	--	--	"	
Benzo (ghi) perylene	"	0.835	---	0.0581	"	"	0.0205	"	105%	"	--	--	"	
Chrysene	"	0.946	---	0.0581	"	"	0.00658	"	121%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.786	---	0.0581	"	"	0.00263	"	101%	(55-150)	--	--	"	
Fluoranthene	"	0.856	---	0.0581	"	"	0.00480	"	110%	(70-150)	--	--	"	
Fluorene	"	0.968	---	0.0581	"	"	ND	"	125%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.792	---	0.0581	"	"	0.0131	"	101%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.772	---	0.0581	"	"	0.00387	"	99.2%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.785	---	0.0581	"	"	0.00349	"	101%	(50-140)	--	--	"	
Naphthalene	"	0.782	---	0.0581	"	"	0.00318	"	101%	(47-147)	--	--	"	
Phenanthrene	"	0.921	---	0.0581	"	"	0.00263	"	119%	(56-150)	--	--	"	
Pyrene	"	0.707	---	0.0581	"	"	0.00689	"	90.4%	(57-150)	--	--	"	

Surrogate(s): p-Terphenyl-d14 Recovery: 82.3% Limits: 46-125% " 02/03/09 20:55

Matrix Spike Dup (9B03026-MSD1) QC Source: BSA0265-02 Extracted: 02/03/09 12:13

Acenaphthene	8270C-SIM	0.857	---	0.0577	mg/kg dry	5x	ND	0.770	111%	(64-140)	0.0610% (41)		02/03/09 21:21	
Acenaphthylene	"	0.867	---	0.0577	"	"	0.00186	"	112%	(66-150)	0.277% "		"	
Anthracene	"	0.929	---	0.0577	"	"	ND	"	121%	(54-150)	1.22% "		"	
Benzo (a) anthracene	"	0.754	---	0.0577	"	"	0.00341	"	97.6%	(57-150)	1.30% "		"	
Benzo (a) pyrene	"	0.774	---	0.0577	"	"	0.0105	"	99.2%	(55-150)	2.27% (35)		"	
Benzo (b) fluoranthene	"	0.705	---	0.0577	"	"	0.00395	"	91.1%	(54-150)	0.223% (41)		"	
Benzo (k) fluoranthene	"	0.888	---	0.0577	"	"	0.00418	"	115%	"	0.313% "		"	
Benzo (ghi) perylene	"	0.875	---	0.0577	"	"	0.0205	"	111%	"	4.58% "		"	
Chrysene	"	0.944	---	0.0577	"	"	0.00658	"	122%	(65-150)	0.251% (40)		"	
Dibenz (a,h) anthracene	"	0.816	---	0.0577	"	"	0.00263	"	106%	(55-150)	3.78% (41)		"	
Fluoranthene	"	0.872	---	0.0577	"	"	0.00480	"	113%	(70-150)	1.80% "		"	
Fluorene	"	0.979	---	0.0577	"	"	ND	"	127%	(74-150)	1.20% (44)		"	
Indeno (1,2,3-cd) pyrene	"	0.830	---	0.0577	"	"	0.0131	"	106%	(50-150)	4.62% "		"	
1-Methylnaphthalene	"	0.796	---	0.0577	"	"	0.00387	"	103%	(45-145)	3.03% (41)		"	
2-Methylnaphthalene	"	0.811	---	0.0577	"	"	0.00349	"	105%	(50-140)	3.26% "		"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03026 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9B03026-MSD1)			QC Source: BSA0265-02				Extracted: 02/03/09 12:13							
Naphthalene	8270C-SIM	0.779	---	0.0577	mg/kg dry	5x	0.00318	0.770	101%	(47-147)	0.413% (41)		02/03/09 21:21	
Phenanthrene	"	0.929	---	0.0577	"	"	0.00263	"	120%	(56-150)	0.842% "		"	
Pyrene	"	0.737	---	0.0577	"	"	0.00689	"	94.9%	(57-150)	4.10% "		"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 85.2%	Limits: 46-125%		"								02/03/09 21:21	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:15
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B02033 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B02033-BLK1)										Extracted: 02/02/09 16:34				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	02/03/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:15

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:15

Notes and Definitions

Report Specific Notes:

- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- Q1 - Does not match typical pattern
- Q7 - The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSB0004**

CLIENT: URS CORPORATION		INVOICE TO:		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses 7 5 4 <input checked="" type="checkbox"/> 2 1 <1 Petroleum Hydrocarbon Analyses 4 <input checked="" type="checkbox"/> 2 1 <1 OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: TY GRIFFITH ADDRESS: CENTURY SQUARE, 1501 4th AVE, SUITE 1400 SEATTLE, WA 98101-1616		P.O. NUMBER:									
PHONE: 206 438 2700 FAX: 206 438 2699		PROJECT NAME: WMCP PHASE 2		PRESERVATIVE							
PROJECT NUMBER: 33759381		PROJECT NUMBER: 33759381		REQUESTED ANALYSES							
SAMPLED BY: JOHN BAKER		SAMPLED BY: JOHN BAKER		REQUESTED ANALYSES							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BTEX BZLDB	TPH-Gx	TPH-Gx	PAH's BZD SIMS (MUTAGENIC)			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 COP-T2-S	01-30-09 / 1525	X	X	X				S	6		-01
2 COP-T2-N	01-30-09 / 1545	X	X	X				S	6		-02
3											
4											
5											
6											
7											
8											
9											
10											
RELEASED BY: John Baker		FIRM: URS CORPORATION		DATE: 02-02-09		RECEIVED BY: Tom Blankenship		FIRM: TA-S		DATE: 2/2/09	
PRINT NAME: JOHN BAKER		FIRM: URS CORPORATION		TIME: 1430		PRINT NAME: Blankenship		FIRM: TA-S		TIME: 1413	
RELEASED BY:		FIRM:		DATE:		RECEIVED BY:		FIRM:		DATE:	
PRINT NAME:		FIRM:		TIME:		PRINT NAME:		FIRM:		TIME:	
ADDITIONAL REMARKS:								TEMP: 5.8		PAGE OF	
								@/ab 1500		w/o	

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: TB 1510

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____

(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 2/2

Date: 2/2

Date: 2/2 ^{TB}

Work Order No. BSB0004

Time: 1500

Time: 1544

Time: 1415 ^{TB} 1615

Client: _____

Initials: TB

Initials: TB

Initials: TB

Project: _____

Container Type:

COC Seals:

Packing Material _____

Cooler

____ Ship Container _____ Sign By

Bubble Bags _____ Styrofoam

____ Box

____ On Bottles _____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant:

Gel Ice Pack _____

____ Loose Ice _____

____ None/Other _____

Received Via: Bill# _____

____ Fed Ex _____ Client

____ UPS TA Courier

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 5.8 °C or NA

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N _____

Adequate Volume? or N _____

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? or N _____

Comments: COC lists analysis TPH-Gx twice. Per PM,

Hold Times in hold? or N _____

Samples logged in for TPH-Gx & TPH-Dx. TB

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

February 06, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 02/03/09 16:00.
The following list is a summary of the Work Orders contained in this report, generated on 02/06/09
15:28.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSB0014	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COP-T2-W	BSB0014-01	Water	02/03/09 10:30	02/03/09 16:00

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:28

Analytical Case Narrative

TestAmerica - Seattle, WA

BSB0014

SAMPLE RECEIPT

The samples were received February 3rd, 2009 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 5.5 degrees Celsius. There were no unpreserved ambers received for PCB analysis.

PREPARATIONS AND ANALYSIS

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	02/06/09 15:28
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0014-01 (COP-T2-W)		Water			Sampled: 02/03/09 10:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	2780	----	250	ug/l	5x	9B03036	02/03/09 15:39	02/03/09 22:40	
<i>Surrogate(s): 4-BFB (FID)</i>			<i>91.4%</i>		<i>70 - 145 %</i>	<i>1x</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	02/06/09 15:28
	Project Manager:	Ty Griffith	

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0014-01 (COP-T2-W)		Water			Sampled: 02/03/09 10:30					
Diesel Range Hydrocarbons	NWTPH-Dx	21.4	----	1.19	mg/l	5x	9B04029	02/04/09 14:59	02/05/09 16:40	
Lube Oil Range Hydrocarbons	"	2.49	----	2.38	"	"	"	"	"	Q7
Surrogate(s): 2-FBP			129%		53 - 120 %	"			"	ZX
Octacosane			102%		68 - 123 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:28
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0014-01 (COP-T2-W)		Water			Sampled: 02/03/09 10:30					
Arsenic	EPA 6020	0.00240	----	0.00100	mg/l	1x	9B03040	02/03/09 16:15	02/04/09 08:49	
Barium	"	0.112	----	0.0100	"	"	"	"	"	
Cadmium	"	ND	----	0.00100	"	"	"	"	"	
Chromium	"	ND	----	0.00100	"	"	"	"	"	
Lead	"	ND	----	0.00100	"	"	"	"	"	
Mercury	EPA 7470A	ND	----	0.000200	"	"	9B05011	02/05/09 12:15	02/05/09 13:45	
Selenium	EPA 6020	0.00540	----	0.00100	"	"	9B03040	02/03/09 16:15	02/04/09 08:49	
Silver	"	ND	----	0.00100	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:28
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0014-01 (COP-T2-W)		Water			Sampled: 02/03/09 10:30					
Benzene	EPA 8260B	9.87	----	0.500	ug/l	1x	9B04025	02/04/09 13:04	02/04/09 15:39	
Ethylbenzene	"	12.8	----	0.500	"	"	"	"	"	"
Toluene	"	10.1	----	0.500	"	"	"	"	"	"
Total Xylenes	"	111	----	3.00	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>97.0%</i>	<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>			<i>98.2%</i>	<i>80 - 120 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>			<i>93.2%</i>	<i>80 - 120 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:28

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0014-01 (COP-T2-W)		Water			Sampled: 02/03/09 10:30					
cis-1,2-Dichloroethene	EPA 8260B	ND	----	0.200	ug/l	1x	9B04025	02/04/09 13:04	02/04/09 15:39	
Tetrachloroethene	"	ND	----	0.200	"	"	"	"	"	
Trichloroethene	"	ND	----	0.200	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				97.0%		76 - 138 %	"			"
<i>Toluene-d8</i>				98.2%		80 - 120 %	"			"
<i>4-BFB</i>				93.2%		80 - 120 %	"			"

BSB0014-01RE1 (COP-T2-W)		Water			Sampled: 02/03/09 10:30					
Bromochloromethane	EPA 8260B	ND	----	0.250	ug/l	1x	9B05010	02/05/09 14:33	02/05/09 22:41	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	0.310	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.500	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.200	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				95.6%		76 - 138 %	"			"
<i>Toluene-d8</i>				100%		80 - 120 %	"			"
<i>4-BFB</i>				90.8%		80 - 120 %	"			"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:28
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03036 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B03036-BLK1)										Extracted: 02/03/09 15:39				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	02/03/09 20:00	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.3%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>02/03/09 20:00</i>	
LCS (9B03036-BS1)										Extracted: 02/03/09 15:39				
Gasoline Range Hydrocarbons	NWTPH-Gx	1080	---	50.0	ug/l	1x	--	1000	108%	(80-120)	--	--	02/03/09 20:32	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.9%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>02/03/09 20:32</i>	
LCS Dup (9B03036-BSD1)										Extracted: 02/03/09 15:39				
Gasoline Range Hydrocarbons	NWTPH-Gx	1050	---	50.0	ug/l	1x	--	1000	105%	(80-120)	2.74%	(25)	02/03/09 21:04	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.8%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>02/03/09 21:04</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:28
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B04029 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B04029-BLK1)										Extracted: 02/04/09 14:59				
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	02/05/09 15:34	
Lube Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 91.0%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>02/05/09 15:34</i>		
<i>Octacosane</i>		<i>107%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>		
LCS (9B04029-BS1)										Extracted: 02/04/09 14:59				
Diesel Range Hydrocarbons	NWTPH-Dx	1.61	---	0.250	mg/l	1x	--	2.00	80.7%	(65-120)	--	--	02/05/09 15:56	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 93.7%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>02/05/09 15:56</i>		
<i>Octacosane</i>		<i>102%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>		
LCS Dup (9B04029-BSD1)										Extracted: 02/04/09 14:59				
Diesel Range Hydrocarbons	NWTPH-Dx	1.37	---	0.250	mg/l	1x	--	2.00	68.4%	(65-120)	16.5%	(25)	02/05/09 16:18	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 77.6%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>02/05/09 16:18</i>		
<i>Octacosane</i>		<i>88.1%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:28
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03040	Water Preparation Method: EPA 3020A
--------------------------	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B03040-BLK1)

Extracted: 02/03/09 16:15

Barium	EPA 6020	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	02/04/09 08:19	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	

LCS (9B03040-BS1)

Extracted: 02/03/09 16:15

Chromium	EPA 6020	0.0790	---	0.00100	mg/l	1x	--	0.0800	98.8%	(80-120)	--	--	02/04/09 08:25	
Cadmium	"	0.0756	---	0.00100	"	"	--	"	94.5%	"	--	--	"	
Arsenic	"	0.0773	---	0.00100	"	"	--	"	96.6%	"	--	--	"	
Silver	"	0.0788	---	0.00100	"	"	--	"	98.4%	"	--	--	"	
Lead	"	0.0804	---	0.00100	"	"	--	"	101%	"	--	--	"	
Selenium	"	0.0777	---	0.00100	"	"	--	"	97.1%	"	--	--	"	
Barium	"	0.0782	---	0.0100	"	"	--	"	97.8%	"	--	--	"	

Duplicate (9B03040-DUP1)

QC Source: BSB0014-01

Extracted: 02/03/09 16:15

Arsenic	EPA 6020	0.00253	---	0.00100	mg/l	1x	0.00240	--	--	--	5.27%	(20)	02/04/09 08:43	
Selenium	"	0.00560	---	0.00100	"	"	0.00540	--	--	--	3.64%	"	"	
Barium	"	0.114	---	0.0100	"	"	0.112	--	--	--	1.51%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Chromium	"	ND	---	0.00100	"	"	ND	--	--	--	1.44%	"	"	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	
Silver	"	ND	---	0.00100	"	"	ND	--	--	--	"	"	"	

Matrix Spike (9B03040-MS1)

QC Source: BSB0014-01

Extracted: 02/03/09 16:15

Silver	EPA 6020	0.0671	---	0.00100	mg/l	1x	ND	0.0800	83.9%	(75-125)	--	--	02/04/09 08:37	
Chromium	"	0.0771	---	0.00100	"	"	0.000690	"	95.5%	"	--	--	"	
Lead	"	0.0790	---	0.00100	"	"	ND	"	98.8%	"	--	--	"	
Arsenic	"	0.0793	---	0.00100	"	"	0.00240	"	96.1%	"	--	--	"	
Cadmium	"	0.0763	---	0.00100	"	"	ND	"	95.4%	"	--	--	"	
Selenium	"	0.0828	---	0.00100	"	"	0.00540	"	96.8%	"	--	--	"	
Barium	"	0.188	---	0.0100	"	"	0.112	"	95.2%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:28
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B03040 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9B03040-PS1)			QC Source: BSB0014-01				Extracted: 02/03/09 16:15							
Silver	EPA 6020	0.0814	---		ug/ml	1x	0.0000800	0.100	81.3%	(80-120)	--	--	02/04/09 08:31	
Arsenic	"	0.108	---		"	"	0.00240	0.0995	106%	"	--	--	"	
Chromium	"	0.103	---		"	"	0.000690	0.100	101%	"	--	--	"	
Cadmium	"	0.100	---		"	"	ND	"	100%	"	--	--	"	
Lead	"	0.105	---		"	"	0.0000700	"	104%	"	--	--	"	
Selenium	"	0.108	---		"	"	0.00540	"	103%	"	--	--	"	
Barium	"	0.210	---		"	"	0.112	"	97.6%	"	--	--	"	

QC Batch: 9B05011 Water Preparation Method: EPA 7470A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B05011-BLK1)							Extracted: 02/05/09 12:15							
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	02/05/09 13:32	
LCS (9B05011-BS1)							Extracted: 02/05/09 12:15							
Mercury	EPA 7470A	0.00498	---	0.000200	mg/l	1x	--	0.00500	99.7%	(80-120)	--	--	02/05/09 13:35	
LCS Dup (9B05011-BSD1)							Extracted: 02/05/09 12:15							
Mercury	EPA 7470A	0.00498	---	0.000200	mg/l	1x	--	0.00500	99.5%	(80-120)	0.159% (20)		02/05/09 13:37	
Matrix Spike (9B05011-MS1)			QC Source: BSB0014-01				Extracted: 02/05/09 12:15							
Mercury	EPA 7470A	0.00459	---	0.000200	mg/l	1x	0.000118	0.00500	89.5%	(75-125)	--	--	02/05/09 13:40	
Matrix Spike Dup (9B05011-MSD1)			QC Source: BSB0014-01				Extracted: 02/05/09 12:15							
Mercury	EPA 7470A	0.00462	---	0.000200	mg/l	1x	0.000118	0.00500	90.0%	(75-125)	0.513% (20)		02/05/09 13:42	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:28
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B04025 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B04025-BLK1)

Extracted: 02/04/09 13:04

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	02/04/09 14:48	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>97.9%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/04/09 14:48</i>	
	<i>Toluene-d8</i>		<i>97.4%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>95.7%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS (9B04025-BS1)

Extracted: 02/04/09 13:04

Benzene	EPA 8260B	42.5	---	0.500	ug/l	1x	--	40.0	106%	(80-120)	--	--	02/04/09 13:22	
Ethylbenzene	"	45.5	---	0.500	"	"	--	"	114%	(75-125)	--	--	"	
Toluene	"	40.1	---	0.500	"	"	--	"	100%	"	--	--	"	
Total Xylenes	"	123	---	3.00	"	"	--	120	103%	"	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>88.0%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/04/09 13:22</i>	
	<i>Toluene-d8</i>		<i>97.7%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>96.2%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS Dup (9B04025-BSD1)

Extracted: 02/04/09 13:04

Benzene	EPA 8260B	41.2	---	0.500	ug/l	1x	--	40.0	103%	(80-120)	3.06%	(20)	02/04/09 13:47	
Ethylbenzene	"	44.6	---	0.500	"	"	--	"	112%	(75-125)	1.91%	"	"	
Toluene	"	40.5	---	0.500	"	"	--	"	101%	"	0.993%	"	"	
Total Xylenes	"	120	---	3.00	"	"	--	120	99.6%	"	2.95%	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>88.2%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/04/09 13:47</i>	
	<i>Toluene-d8</i>		<i>97.2%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>100%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	02/06/09 15:28

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B04025 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B04025-BLK1)

Extracted: 02/04/09 13:04

Chlorobenzene	EPA 8260B	ND	---	0.200	ug/l	1x	--	--	--	--	--	--	02/04/09 14:48	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>97.9%</i>						<i>Limits: 76-138%</i>			<i>"</i>	<i>02/04/09 14:48</i>
<i>Toluene-d8</i>				<i>97.4%</i>						<i>80-120%</i>			<i>"</i>	
<i>4-BFB</i>				<i>95.7%</i>						<i>80-120%</i>			<i>"</i>	

LCS (9B04025-BS1)

Extracted: 02/04/09 13:04

Chlorobenzene	EPA 8260B	37.5	---	0.200	ug/l	1x	--	40.0	93.8%	(80-120)	--	--	02/04/09 13:22	
1,1-Dichloroethene	"	45.4	---	0.200	"	"	--	"	113%	"	--	--	"	
Trichloroethene	"	40.3	---	0.200	"	"	--	"	101%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>88.0%</i>						<i>Limits: 76-138%</i>			<i>"</i>	<i>02/04/09 13:22</i>
<i>Toluene-d8</i>				<i>97.7%</i>						<i>80-120%</i>			<i>"</i>	
<i>4-BFB</i>				<i>96.2%</i>						<i>80-120%</i>			<i>"</i>	

LCS Dup (9B04025-BSD1)

Extracted: 02/04/09 13:04

Chlorobenzene	EPA 8260B	37.0	---	0.200	ug/l	1x	--	40.0	92.6%	(80-120)	1.31% (20)		02/04/09 13:47	
1,1-Dichloroethene	"	43.9	---	0.200	"	"	--	"	110%	"	3.32%	"	"	
Trichloroethene	"	39.4	---	0.200	"	"	--	"	98.5%	"	2.16%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>88.2%</i>						<i>Limits: 76-138%</i>			<i>"</i>	<i>02/04/09 13:47</i>
<i>Toluene-d8</i>				<i>97.2%</i>						<i>80-120%</i>			<i>"</i>	
<i>4-BFB</i>				<i>100%</i>						<i>80-120%</i>			<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:28
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B05010 **Water Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B05010-BLK1)													Extracted: 02/05/09 12:33	
Bromochloromethane	EPA 8260B	ND	---	0.250	ug/l	1x	--	--	--	--	--	--	02/05/09 14:48	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	0.430	---	0.200	"	"	--	--	--	--	--	--	"	B
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i> 1,2-DCA-d4	<i>Recovery:</i> 97.2%	<i>Limits:</i> 76-138%	"	02/05/09 14:48
Toluene-d8	102%	80-120%	"	"
4-BFB	104%	80-120%	"	"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:28
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B05010 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9B05010-BS1)

Extracted: 02/05/09 12:33

Chlorobenzene	EPA 8260B	37.6	---	0.200	ug/l	1x	--	40.0	94.0%	(80-120)	--	--	02/05/09 12:46	
1,1-Dichloroethene	"	41.3	---	0.200	"	"	--	"	103%	"	--	--	"	
Trichloroethene	"	38.3	---	0.200	"	"	--	"	95.8%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>95.4%</i>	<i>Limits: 76-138%</i>		<i>"</i>						<i>02/05/09 12:46</i>		
<i>Toluene-d8</i>		<i>97.9%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>99.3%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9B05010-BSD1)

Extracted: 02/05/09 12:33

Chlorobenzene	EPA 8260B	39.1	---	0.200	ug/l	1x	--	40.0	97.8%	(80-120)	4.02%	(20)	02/05/09 13:15	
1,1-Dichloroethene	"	42.1	---	0.200	"	"	--	"	105%	"	1.82%	"	"	
Trichloroethene	"	39.3	---	0.200	"	"	--	"	98.2%	"	2.45%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>92.5%</i>	<i>Limits: 76-138%</i>		<i>"</i>						<i>02/05/09 13:15</i>		
<i>Toluene-d8</i>		<i>99.9%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>101%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:28

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 6020	Water	X	X
EPA 7470A	Water	X	X
EPA 8260B	Water	X	X
NWTPH-Dx	Water		X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:28

Notes and Definitions

Report Specific Notes:

- B - Analyte was detected in the associated Method Blank.
- Q7 - The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:

(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 2/3/09

Date: 2/3/09

Date: 2/3/09

Work Order No. B5B0014

Time: 1600

Time: 1608

Time: 1615

Client: _____

Initials: FL.

Initials: FL.

Initials: FL.

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant:

Gel Ice Pack _____

____ Loose Ice _____

____ None/Other _____

Received Via: Bill#

____ Fed Ex _____ Client

____ UPS TA Courier

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 5.5 or NA

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or _____

Correct Type? Y or No container for PCB

Adequate Volume? or N _____
(for tests requested)

#Containers match COC? or N _____

Water VOAs: Headspace? Y or or NA _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y. or N. If N, circle the items that were incomplete.

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

February 06, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 02/04/09 15:00.
The following list is a summary of the Work Orders contained in this report, generated on 02/06/09
15:36.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSB0021	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COP-T2-W	BSB0021-01	Water	02/04/09 14:20	02/04/09 15:00

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/06/09 15:36
--	---	-----------------------------------

Polychlorinated Biphenyls by EPA Method 8082
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0021-01 (COP-T2-W)		Water			Sampled: 02/04/09 14:20					
Aroclor 1016	EPA 8082	ND	----	0.476	ug/l	1x	9B04036	02/04/09 15:56	02/05/09 16:10	
Aroclor 1221	"	ND	----	0.476	"	"	"	"	"	"
Aroclor 1232	"	ND	----	0.476	"	"	"	"	"	"
Aroclor 1242	"	ND	----	0.476	"	"	"	"	"	"
Aroclor 1248	"	ND	----	0.476	"	"	"	"	"	"
Aroclor 1254	"	ND	----	0.476	"	"	"	"	"	"
Aroclor 1260	"	ND	----	0.476	"	"	"	"	"	"
Aroclor 1262	"	ND	----	0.476	"	"	"	"	"	"
Aroclor 1268	"	ND	----	0.476	"	"	"	"	"	"
<i>Surrogate(s): TCX</i>				75.6%		15 - 134 %	"			"
<i>Decachlorobiphenyl</i>				47.2%		15 - 127 %	"			"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:36

Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9B04036

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B04036-BLK1)										Extracted: 02/04/09 15:56				
Aroclor 1016	EPA 8082	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	02/05/09 15:22	
Aroclor 1221	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1262	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1268	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): TCX		Recovery: 85.9%		Limits: 15-134%		"						02/05/09 15:22		
Decachlorobiphenyl		87.6%		15-127%		"								
LCS (9B04036-BS1)										Extracted: 02/04/09 15:56				
Aroclor 1016	EPA 8082	2.72	---	0.500	ug/l	1x	--	2.50	109%	(74-149)	--	--	02/05/09 15:38	
Aroclor 1260	"	2.86	---	0.500	"	"	--	"	115%	(64-137)	--	--	"	
Surrogate(s): TCX		Recovery: 86.5%		Limits: 15-134%		"						02/05/09 15:38		
Decachlorobiphenyl		94.3%		15-127%		"								
LCS Dup (9B04036-BSD1)										Extracted: 02/04/09 15:56				
Aroclor 1016	EPA 8082	2.75	---	0.500	ug/l	1x	--	2.50	110%	(74-149)	1.14%	(30)	02/05/09 15:54	
Aroclor 1260	"	2.81	---	0.500	"	"	--	"	113%	(64-137)	1.79%	(25)	"	
Surrogate(s): TCX		Recovery: 79.0%		Limits: 15-134%		"						02/05/09 15:54		
Decachlorobiphenyl		97.2%		15-127%		"								

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:36

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 8082	Water	X	X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/06/09 15:36

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSB0021**

CLIENT: URS CORPORATION			INVOICE TO:										TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.													
REPORT TO: TY GILKETH ADDRESS: CENTURY SQUARE 1501 4th AVE, SUITE 1400 SEATTLE, WA 98101-1616 PHONE: 206 438 2700 FAX: 206 438 2699			P.O. NUMBER:																							
PROJECT NAME: WMCP PHASE 2			PRESERVATIVE																							
PROJECT NUMBER: 33759381			REQUESTED ANALYSES																							
SAMPLED BY: JOHN BAKER																										
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME												MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS		TA WO ID								
COP-T2-W		02-04-09 / 1420		PCB's										W	2			-01								
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
RELEASED BY: JLB			FIRM: URS CORPORATION			DATE: 02-04-09			TIME: 1431			RECEIVED BY: [Signature]			PRINT NAME: Francisco Lung, Jr			FIRM: THSEH			DATE: 2/4/09			TIME: 1431		
PRINT NAME: JOHN BAKER			FIRM:			DATE:			TIME:			RECEIVED BY:			PRINT NAME:			FIRM:			DATE:			TIME:		
ADDITIONAL REMARKS: @Lab 1500 w/o 11.5°C																										

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances? Circle Y or N

Page Time & Initials: _____

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:

(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 2/4/09

Date: 2/4/09

Date: 2/4/09

Work Order No. BSB0021

Time: 1500

Time: 1539

Time: 1544

Client: _____

Initials: FL.

Initials: FL.

Initials: FL.

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler _____ Ship Container _____ Sign By _____

Bubble Bags _____ Styrofoam _____

_____ Box _____ On Bottles _____ Date _____

_____ Foam Packs _____

_____ None/Other _____ None

_____ None/Other _____

Refrigerant:

Received Via: Bill#

Gel Ice Pack _____

_____ Fed Ex _____ Client _____

_____ Loose Ice _____

_____ UPS TA Courier _____

_____ None/Other _____

_____ DHL _____ Mid Valley _____

_____ Senvoy _____ TDP _____

_____ GS _____ Other _____

Cooler Temperature (IR): 11.5 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? _____ °C or NA

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N _____

Adequate Volume? or N _____
(for tests requested)

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N if N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____

Y or N

Has client been contacted regarding non-conformances? _____

Y or N

If Y, _____ / _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

February 21, 2009

Melanie Young
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: COP Westlake & Mercer Cleanup Project

Enclosed are the results of analyses for samples received by the laboratory on 02/05/09 15:45.
The following list is a summary of the Work Orders contained in this report, generated on 02/21/09
09:08.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSB0032	COP Westlake & Mercer Clea	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

02/21/09 09:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I-020509	BSB0032-01	Water	02/05/09 11:10	02/05/09 15:45
M-020509	BSB0032-02	Water	02/05/09 11:05	02/05/09 15:45
E01-020509	BSB0032-03	Water	02/05/09 11:05	02/05/09 15:45
E02-020509	BSB0032-04	Water	02/05/09 11:10	02/05/09 15:45
E03-020509	BSB0032-05	Water	02/05/09 11:15	02/05/09 15:45

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 02/21/09 09:08
--	--	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0032-01RE1 (I-020509)		Water			Sampled: 02/05/09 11:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	14000	----	500	ug/l	10x	9B10010	02/10/09 09:50	02/10/09 15:18	
Surrogate(s): 4-BFB (FID)			94.2%		70 - 145 %	1x				"
BSB0032-02RE1 (M-020509)		Water			Sampled: 02/05/09 11:05					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9B10010	02/10/09 09:50	02/10/09 13:41	
Surrogate(s): 4-BFB (FID)			89.7%		70 - 145 %	"				"
BSB0032-03 (E01-020509)		Water			Sampled: 02/05/09 11:05					
Gasoline Range Hydrocarbons	NWTPH-Gx	173	----	50.0	ug/l	1x	9B06020	02/06/09 15:18	02/07/09 09:24	
Surrogate(s): 4-BFB (FID)			100%		70 - 145 %	"				"
BSB0032-04 (E02-020509)		Water			Sampled: 02/05/09 11:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9B06020	02/06/09 15:18	02/07/09 09:56	
Surrogate(s): 4-BFB (FID)			99.6%		70 - 145 %	"				"
BSB0032-05 (E03-020509)		Water			Sampled: 02/05/09 11:15					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9B06020	02/06/09 15:18	02/07/09 10:29	
Surrogate(s): 4-BFB (FID)			98.9%		70 - 145 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 02/21/09 09:08
--	--	-----------------------------------

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0032-01 (I-020509)		Water			Sampled: 02/05/09 11:10					
Diesel Range Hydrocarbons	NWTPH-Dx	2.07	----	1.18	mg/l	5x	9B06016	02/06/09 14:17	02/10/09 21:38	Q10
Lube Oil Range Hydrocarbons	"	ND	----	2.36	"	"	"	"	"	C
<i>Surrogate(s): 2-FBP</i>			<i>109%</i>		<i>53 - 120 %</i>	<i>"</i>			<i>"</i>	
<i>Octacosane</i>			<i>110%</i>		<i>68 - 123 %</i>	<i>"</i>			<i>"</i>	
BSB0032-02 (M-020509)		Water			Sampled: 02/05/09 11:05					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9B06016	02/06/09 14:17	02/10/09 22:01	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	C
<i>Surrogate(s): 2-FBP</i>			<i>107%</i>		<i>53 - 120 %</i>	<i>"</i>			<i>"</i>	
<i>Octacosane</i>			<i>134%</i>		<i>68 - 123 %</i>	<i>"</i>			<i>"</i>	Z2
BSB0032-03 (E01-020509)		Water			Sampled: 02/05/09 11:05					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9B06016	02/06/09 14:17	02/10/09 22:24	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	C
<i>Surrogate(s): 2-FBP</i>			<i>91.1%</i>		<i>53 - 120 %</i>	<i>"</i>			<i>"</i>	
<i>Octacosane</i>			<i>103%</i>		<i>68 - 123 %</i>	<i>"</i>			<i>"</i>	
BSB0032-04 (E02-020509)		Water			Sampled: 02/05/09 11:10					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.240	mg/l	1x	9B06016	02/06/09 14:17	02/10/09 22:46	
Lube Oil Range Hydrocarbons	"	ND	----	0.481	"	"	"	"	"	C
<i>Surrogate(s): 2-FBP</i>			<i>92.1%</i>		<i>53 - 120 %</i>	<i>"</i>			<i>"</i>	
<i>Octacosane</i>			<i>109%</i>		<i>68 - 123 %</i>	<i>"</i>			<i>"</i>	
BSB0032-05 (E03-020509)		Water			Sampled: 02/05/09 11:15					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9B06016	02/06/09 14:17	02/10/09 23:10	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	C
<i>Surrogate(s): 2-FBP</i>			<i>90.6%</i>		<i>53 - 120 %</i>	<i>"</i>			<i>"</i>	
<i>Octacosane</i>			<i>105%</i>		<i>68 - 123 %</i>	<i>"</i>			<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 02/21/09 09:08
--	--	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0032-03 (E01-020509)	Water				Sampled: 02/05/09 11:05					
Cadmium	EPA 6020	ND	----	0.00100	mg/l	1x	9B09014	02/09/09 10:06	02/10/09 15:34	
Chromium	"	0.00109	----	0.00100	"	"	"	"	"	"
Copper	"	0.00172	----	0.00100	"	"	"	"	"	"
Lead	"	0.00277	----	0.00100	"	"	"	"	"	"
Nickel	"	0.00229	----	0.00100	"	"	"	"	"	"
Zinc	"	0.342	----	0.0100	"	"	"	"	"	"

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Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0032-01 (I-020509)		Water			Sampled: 02/05/09 11:10					
Benzene	EPA 8260B	23.7	----	0.500	ug/l	1x	9B06009	02/06/09 13:00	02/06/09 22:26	
Ethylbenzene	"	53.6	----	0.500	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			107%		80 - 120 %	"				"
Toluene-d8			101%		80 - 120 %	"				"
4-BFB			96.6%		80 - 120 %	"				"
BSB0032-01RE1 (I-020509)		Water			Sampled: 02/05/09 11:10					
Toluene	EPA 8260B	108	----	5.00	ug/l	10x	9B09034	02/09/09 12:50	02/09/09 19:49	
Total Xylenes	"	2580	----	30.0	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			104%		80 - 120 %	1x				"
Toluene-d8			101%		80 - 120 %	"				"
4-BFB			89.2%		80 - 120 %	"				"
BSB0032-02 (M-020509)		Water			Sampled: 02/05/09 11:05					
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9B06009	02/06/09 13:00	02/06/09 22:55	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			88.8%		80 - 120 %	"				"
Toluene-d8			102%		80 - 120 %	"				"
4-BFB			101%		80 - 120 %	"				"
BSB0032-02RE1 (M-020509)		Water			Sampled: 02/05/09 11:05					
Total Xylenes	EPA 8260B	ND	----	3.00	ug/l	1x	9B09034	02/09/09 12:50	02/09/09 17:54	
Surrogate(s): 1,2-DCA-d4			102%		80 - 120 %	"				"
Toluene-d8			99.4%		80 - 120 %	"				"
4-BFB			103%		80 - 120 %	"				"
BSB0032-03 (E01-020509)		Water			Sampled: 02/05/09 11:05					
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9B06009	02/06/09 13:00	02/06/09 23:24	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			88.7%		80 - 120 %	"				"
Toluene-d8			99.4%		80 - 120 %	"				"
4-BFB			109%		80 - 120 %	"				"

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B06020 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9B06020-BLK1)													Extracted: 02/06/09 15:18			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	02/06/09 17:19			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.7%</i>		<i>Limits: 70-145%</i>		<i>"</i>						<i>02/06/09 17:19</i>				
LCS (9B06020-BS1)													Extracted: 02/06/09 15:18			
Gasoline Range Hydrocarbons	NWTPH-Gx	1020	---	50.0	ug/l	1x	--	1000	102%	(80-120)	--	--	02/06/09 17:52			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 106%</i>		<i>Limits: 70-145%</i>		<i>"</i>						<i>02/06/09 17:52</i>				
Duplicate (9B06020-DUP1)													QC Source: BSB0032-04		Extracted: 02/06/09 15:18	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	NR	(25)	02/06/09 19:28			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>		<i>Limits: 70-145%</i>		<i>"</i>						<i>02/06/09 19:28</i>				
Duplicate (9B06020-DUP2)													QC Source: BSB0033-12		Extracted: 02/06/09 15:18	
Gasoline Range Hydrocarbons	NWTPH-Gx	17400	---	50.0	ug/l	1x	18600	--	--	--	6.34%	(25)	02/07/09 07:48	E		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 237%</i>		<i>Limits: 70-145%</i>		<i>"</i>						<i>02/07/09 07:48</i>				
Matrix Spike (9B06020-MS1)													QC Source: BSB0033-04		Extracted: 02/06/09 15:18	
Gasoline Range Hydrocarbons	NWTPH-Gx	1070	---	50.0	ug/l	1x	ND	1000	107%	(70-135)	--	--	02/06/09 20:33			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>		<i>Limits: 70-145%</i>		<i>"</i>						<i>02/06/09 20:33</i>				
Matrix Spike Dup (9B06020-MSD1)													QC Source: BSB0033-04		Extracted: 02/06/09 15:18	
Gasoline Range Hydrocarbons	NWTPH-Gx	1020	---	50.0	ug/l	1x	ND	1000	102%	(70-135)	4.94%	(25)	02/06/09 21:05			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 106%</i>		<i>Limits: 70-145%</i>		<i>"</i>						<i>02/06/09 21:05</i>				

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B10010 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B10010-BLK1)							Extracted: 02/10/09 09:50							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	02/10/09 10:58	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 89.4%</i>		<i>Limits: 70-145%</i>		<i>"</i>							02/10/09 10:58	
LCS (9B10010-BS1)							Extracted: 02/10/09 09:50							
Gasoline Range Hydrocarbons	NWTPH-Gx	1050	---	50.0	ug/l	1x	--	1000	105%	(80-120)	--	--	02/10/09 11:31	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.5%</i>		<i>Limits: 70-145%</i>		<i>"</i>							02/10/09 11:31	
Duplicate (9B10010-DUP1)							QC Source: BSB0048-03RE1		Extracted: 02/10/09 09:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	52.0	---	50.0	ug/l	1x	58.9	--	--	--	12.4% (25)		02/10/09 13:08	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 88.1%</i>		<i>Limits: 70-145%</i>		<i>"</i>							02/10/09 13:08	
Matrix Spike (9B10010-MS1)							QC Source: BSB0058-03RE1		Extracted: 02/10/09 09:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	89300	---	2500	ug/l	50x	85300	50000	8.18%	(70-135)	--	--	02/11/09 08:45	MHA
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 107%</i>		<i>Limits: 70-145%</i>		<i>1x</i>							02/11/09 08:45	
Matrix Spike Dup (9B10010-MSD1)							QC Source: BSB0058-03RE1		Extracted: 02/10/09 09:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	89500	---	2500	ug/l	50x	85300	50000	8.58%	(70-135)	0.225% (25)		02/11/09 09:17	MHA
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 105%</i>		<i>Limits: 70-145%</i>		<i>1x</i>							02/11/09 09:17	

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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B06016 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B06016-BLK1)													Extracted: 02/06/09 14:17	
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	02/10/09 19:45	
Lube Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.7%</i>	<i>Limits: 53-120%</i>		<i>"</i>							<i>02/10/09 19:45</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>98.6%</i>	<i>Limits: 68-123%</i>		<i>"</i>							<i>"</i>	
LCS (9B06016-BS1)													Extracted: 02/06/09 14:17	
Diesel Range Hydrocarbons	NWTPH-Dx	1.81	---	0.250	mg/l	1x	--	2.00	90.4%	(65-120)	--	--	02/10/09 20:08	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>92.0%</i>	<i>Limits: 53-120%</i>		<i>"</i>							<i>02/10/09 20:08</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 68-123%</i>		<i>"</i>							<i>"</i>	
LCS Dup (9B06016-BSD1)													Extracted: 02/06/09 14:17	
Diesel Range Hydrocarbons	NWTPH-Dx	1.84	---	0.250	mg/l	1x	--	2.00	92.0%	(65-120)	1.83%	(25)	02/10/09 20:31	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.7%</i>	<i>Limits: 53-120%</i>		<i>"</i>							<i>02/10/09 20:31</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 68-123%</i>		<i>"</i>							<i>"</i>	

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B09014	Water Preparation Method: EPA 3020A
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B09014-BLK1)

Extracted: 02/09/09 10:06

Copper	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	02/10/09 15:04	
Nickel	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Zinc	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

LCS (9B09014-BS1)

Extracted: 02/09/09 10:06

Nickel	EPA 6020	0.0721	---	0.00100	mg/l	1x	--	0.0800	90.1%	(80-120)	--	--	02/10/09 15:10	
Chromium	"	0.0724	---	0.00100	"	"	--	"	90.5%	"	--	--	"	
Copper	"	0.0740	---	0.00100	"	"	--	"	92.4%	"	--	--	"	
Zinc	"	0.0724	---	0.0100	"	"	--	"	90.4%	"	--	--	"	
Lead	"	0.0722	---	0.00100	"	"	--	"	90.3%	"	--	--	"	
Cadmium	"	0.0700	---	0.00100	"	"	--	"	87.5%	"	--	--	"	

Duplicate (9B09014-DUP1)

QC Source: BSB0059-01

Extracted: 02/09/09 10:06

Zinc	EPA 6020	ND	---	0.0100	mg/l	1x	ND	--	--	--	3.75% (20)	--	02/10/09 15:28	
Nickel	"	0.0169	---	0.00100	"	"	0.0172	--	--	--	1.70%	"	"	
Lead	"	ND	---	0.00100	"	"	ND	--	--	--	4.26%	"	"	
Copper	"	0.00735	---	0.00100	"	"	0.00743	--	--	--	1.08%	"	"	
Chromium	"	0.00831	---	0.00100	"	"	0.00841	--	--	--	1.20%	"	"	
Cadmium	"	ND	---	0.00100	"	"	ND	--	--	--	NR	"	"	

Matrix Spike (9B09014-MS1)

QC Source: BSB0059-01

Extracted: 02/09/09 10:06

Cadmium	EPA 6020	0.0697	---	0.00100	mg/l	1x	ND	0.0800	87.1%	(75-125)	--	--	02/10/09 15:22	
Chromium	"	0.0772	---	0.00100	"	"	0.00841	"	85.9%	"	--	--	"	
Copper	"	0.0758	---	0.00100	"	"	0.00743	"	85.5%	"	--	--	"	
Nickel	"	0.0840	---	0.00100	"	"	0.0172	"	83.5%	"	--	--	"	
Zinc	"	0.0762	---	0.0100	"	"	0.00570	"	88.2%	"	--	--	"	
Lead	"	0.0730	---	0.00100	"	"	0.000460	"	90.6%	"	--	--	"	

Post Spike (9B09014-PS1)

QC Source: BSB0059-01

Extracted: 02/09/09 10:06

Lead	EPA 6020	0.0982	---		ug/ml	1x	0.000460	0.100	97.2%	(80-120)	--	--	02/10/09 15:16	
Chromium	"	0.102	---		"	"	0.00841	"	93.4%	"	--	--	"	
Zinc	"	0.101	---		"	"	0.00570	"	95.1%	"	--	--	"	
Cadmium	"	0.0949	---		"	"	-0.0000200	"	94.9%	"	--	--	"	
Nickel	"	0.106	---		"	"	0.0172	0.0995	89.4%	"	--	--	"	
Copper	"	0.0987	---		"	"	0.00743	0.100	90.8%	"	--	--	"	

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B06009 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B06009-BLK1)

Extracted: 02/06/09 13:00

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	02/06/09 15:40	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>99.4%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/06/09 15:40</i>	
	<i>Toluene-d8</i>		<i>103%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>104%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS (9B06009-BS1)

Extracted: 02/06/09 13:00

Benzene	EPA 8260B	39.6	---	0.500	ug/l	1x	--	40.0	98.9%	(80-120)	--	--	02/06/09 13:40	
Ethylbenzene	"	41.8	---	0.500	"	"	--	"	105%	(75-125)	--	--	"	
Toluene	"	38.4	---	0.500	"	"	--	"	96.1%	"	--	--	"	
Total Xylenes	"	122	---	3.00	"	"	--	120	102%	"	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>97.4%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/06/09 13:40</i>	
	<i>Toluene-d8</i>		<i>100%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>98.1%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS Dup (9B06009-BSD1)

Extracted: 02/06/09 13:00

Benzene	EPA 8260B	40.1	---	0.500	ug/l	1x	--	40.0	100%	(80-120)	1.41%	(20)	02/06/09 14:09	
Ethylbenzene	"	40.8	---	0.500	"	"	--	"	102%	(75-125)	2.32%	"	"	
Toluene	"	38.9	---	0.500	"	"	--	"	97.2%	"	1.06%	"	"	
Total Xylenes	"	120	---	3.00	"	"	--	120	100%	"	2.10%	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>95.1%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>02/06/09 14:09</i>	
	<i>Toluene-d8</i>		<i>97.8%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>99.0%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B09034 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9B09034-BLK1)

Extracted: 02/09/09 12:50

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	02/09/09 17:14	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>96.1%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>02/09/09 17:14</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>103%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

LCS (9B09034-BS1)

Extracted: 02/09/09 12:50

Benzene	EPA 8260B	39.5	---	0.500	ug/l	1x	--	40.0	98.8%	(80-120)	--	--	02/09/09 15:45	
Ethylbenzene	"	39.3	---	0.500	"	"	--	"	98.2%	(75-125)	--	--	"	
Toluene	"	37.8	---	0.500	"	"	--	"	94.6%	"	--	--	"	
Total Xylenes	"	116	---	3.00	"	"	--	120	97.1%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.1%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>02/09/09 15:45</i>	
<i>Toluene-d8</i>			<i>98.0%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>100%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9B09034-BSD1)

Extracted: 02/09/09 12:50

Benzene	EPA 8260B	38.1	---	0.500	ug/l	1x	--	40.0	95.2%	(80-120)	3.74% (20)		02/09/09 16:14	
Ethylbenzene	"	38.3	---	0.500	"	"	--	"	95.8%	(75-125)	2.45%	"	"	
Toluene	"	36.6	---	0.500	"	"	--	"	91.6%	"	3.17%	"	"	
Total Xylenes	"	114	---	3.00	"	"	--	120	95.3%	"	1.87%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>94.3%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>02/09/09 16:14</i>	
<i>Toluene-d8</i>			<i>97.4%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>100%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

02/21/09 09:08

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 6020	Water	X	X
EPA 8260B	Water	X	X
NWTPH-Dx	Water		X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

02/21/09 09:08

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- E - Concentration exceeds the calibration range and therefore result is semi-quantitative.
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Q10 - Hydrocarbon pattern most closely resembles a blend of gasoline and weathered diesel..
- Z2 - Surrogate recovery was above the acceptance limits. Data not impacted.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: 354

Date: 2/5/09

Date: 2/5/09

Date: _____

Work Order No. BSB0032

Time: 1545

Time: 1643

Time: _____

Client: _____

Initials: FL

Initials: FL

Initials: _____

Project: _____

Container Type:

COC Seals:

Packing Material _____:

Cooler

Ship Container

Sign By

Bubble Bags

Styrofoam

Box

On Bottles

Date

Foam Packs

None/Other _____

None

None/Other _____

Refrigerant:

Gel Ice Pack _____

Loose Ice _____

None/Other _____

Received Via: Bill#

Fed Ex Client FL

UPS TA Courier

DHL Mid Valley

Senvoy TDP

GS Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 2.5 °C or NA

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N _____

Adequate Volume? or N _____

#Containers match COC? or N _____

Water VOAs: Headspace? Y or or NA FL _____

IDs/time/date match COC? Y or _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Has client been contacted regarding non-conformances?

Y or N

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

February 13, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 02/10/09 14:50.
The following list is a summary of the Work Orders contained in this report, generated on 02/13/09
15:56.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSB0073	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:
02/13/09 15:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COP-T1-2-Oil	BSB0073-01	Other wet	02/10/09 13:00	02/10/09 14:50

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/13/09 15:56

Analytical Case Narrative

TestAmerica - Seattle, WA

BSB0073

SAMPLE RECEIPT

The samples were received 02/10/09 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 11.2 degrees Celsius.

PREPARATIONS AND ANALYSIS

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	02/13/09 15:56
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0073-01 (COP-T1-2-Oil)		Other wet			Sampled: 02/10/09 13:00					P4
Gasoline Range Hydrocarbons	NWTPH-Gx	17600	----	5000	mg/kg wet	100x	9B10011	02/10/09 13:52	02/10/09 16:29	
<i>Surrogate(s): 4-BFB (FID)</i>			<i>106%</i>		<i>80 - 140 %</i>	<i>1x</i>				<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/13/09 15:56
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0073-01 (COP-T1-2-Oil)		Other wet			Sampled: 02/10/09 13:00					
Lube Oil	NWTPH-Dx	153000	----	250	mg/kg	10x	9B11015	02/11/09 12:23	02/11/09 20:44	B1, Q9
Diesel Range Hydrocarbons	"	228000	----	100	"	"	"	"	"	B1, Q9
Surrogate(s): 2-FBP			148%		60 - 135 %	"			"	ZX
Octacosane			133%		75 - 125 %	"			"	ZX
BSB0073-01RE1 (COP-T1-2-Oil)		Other wet			Sampled: 02/10/09 13:00					
Bunker C	NWTPH-Dx	595000	----	500	mg/kg	20x	9B11015	02/11/09 12:23	02/12/09 10:43	B1
Surrogate(s): 2-FBP			212%		60 - 135 %	"			"	ZX
Octacosane			152%		75 - 125 %	"			"	ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/13/09 15:56

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0073-01 (COP-T1-2-Oil)		Other wet			Sampled: 02/10/09 13:00					
Arsenic	EPA 6020	3.68	----	0.266	mg/kg wet	1x	9B11004	02/11/09 07:11	02/11/09 11:56	
Barium	"	57.0	----	2.66	"	"	"	"	"	
Cadmium	"	ND	----	0.266	"	"	"	"	"	
Chromium	"	18.3	----	0.266	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0952	"	"	9B12014	02/12/09 10:45	02/12/09 13:25	
Selenium	EPA 6020	1.41	----	0.532	"	"	9B11004	02/11/09 07:11	02/11/09 11:56	
Silver	"	ND	----	0.266	"	"	"	"	"	
BSB0073-01RE1 (COP-T1-2-Oil)		Other wet			Sampled: 02/10/09 13:00					
Lead	EPA 6020	139	----	1.33	mg/kg wet	5x	9B11004	02/11/09 07:11	02/11/09 12:02	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/13/09 15:56
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Polychlorinated Biphenyls in Oil by EPA Method 8082
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0073-01 (COP-T1-2-Oil)		Other wet			Sampled: 02/10/09 13:00					RL1
Aroclor 1016 [2C]	EPA 8082	ND	----	20.0	mg/kg	20x	9B11025	02/11/09 16:13	02/13/09 11:06	
Aroclor 1221 [2C]	"	ND	----	20.0	"	"	"	"	"	
Aroclor 1232 [2C]	"	ND	----	20.0	"	"	"	"	"	
Aroclor 1242 [2C]	"	ND	----	20.0	"	"	"	"	"	
Aroclor 1248 [2C]	"	ND	----	20.0	"	"	"	"	"	
Aroclor 1254 [2C]	"	ND	----	20.0	"	"	"	"	"	
Aroclor 1260 [2C]	"	ND	----	20.0	"	"	"	"	"	
Aroclor 1262 [2C]	"	ND	----	20.0	"	"	"	"	"	
Aroclor 1268 [2C]	"	ND	----	20.0	"	"	"	"	"	
Surrogate(s): TCX [2C]			113%		40 - 130 %	"			"	
Decachlorobiphenyl [2C]			NR		40 - 130 %	"			"	ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/13/09 15:56

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0073-01 (COP-T1-2-Oil)		Other wet					Sampled: 02/10/09 13:00			
Benzene	EPA 8260B	ND	----	10.0	mg/kg	10x	9B10036	02/10/09 15:45	02/10/09 19:17	RL1
Bromochloromethane	"	ND	----	10.0	"	"	"	"	"	
Bromodichloromethane	"	ND	----	10.0	"	"	"	"	"	
Bromoform	"	ND	----	10.0	"	"	"	"	"	
Bromomethane	"	ND	----	10.0	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	10.0	"	"	"	"	"	
Chlorobenzene	"	ND	----	10.0	"	"	"	"	"	
Chloroethane	"	ND	----	10.0	"	"	"	"	"	
Chloroform	"	ND	----	10.0	"	"	"	"	"	
Chloromethane	"	ND	----	50.0	"	"	"	"	"	
Dibromochloromethane	"	ND	----	10.0	"	"	"	"	"	
1,2-Dichlorobenzene	"	11.8	----	10.0	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	10.0	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	10.0	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	10.0	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	10.0	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	10.0	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	10.0	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	10.0	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	10.0	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	10.0	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	10.0	"	"	"	"	"	
Ethylbenzene	"	11.9	----	10.0	"	"	"	"	"	
Methylene chloride	"	ND	----	200	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	10.0	"	"	"	"	"	
Tetrachloroethene	"	ND	----	10.0	"	"	"	"	"	
Toluene	"	ND	----	10.0	"	"	"	"	"	RL1
1,1,1-Trichloroethane	"	ND	----	10.0	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	10.0	"	"	"	"	"	
Trichloroethene	"	ND	----	10.0	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	10.0	"	"	"	"	"	
Vinyl chloride	"	ND	----	10.0	"	"	"	"	"	
Xylenes (total)	"	46.9	----	30.0	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>102%</i>	<i>75 - 125 %</i>	<i>1x</i>	<i>"</i>
	<i>1,2-DCA-d4</i>	<i>102%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>97.8%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>97.8%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>100%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>100%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	02/13/09 15:56
	Project Manager:	Ty Griffith	

Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0073-01 (COP-T1-2-Oil)				Other wet			Sampled: 02/10/09 13:00			
pH	EPA 9045C	7.19	----		pH Units	1x	9B12025	02/12/09 14:44	02/12/09 14:45	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/13/09 15:56
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B10011 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B10011-BLK1)										Extracted: 02/10/09 09:52				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	02/10/09 10:33	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 91.2%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>02/10/09 10:33</i>	
LCS (9B10011-BS1)										Extracted: 02/10/09 09:52				
Gasoline Range Hydrocarbons	NWTPH-Gx	53.8	---	5.00	mg/kg wet	1x	--	50.0	108%	(80-120)	--	--	02/10/09 11:05	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.5%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>02/10/09 11:05</i>	
Duplicate (9B10011-DUP1)										QC Source: BSB0070-01		Extracted: 02/10/09 09:52		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	7.63	mg/kg dry	1x	ND	--	--	--	NR (40)		02/10/09 12:09	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.0%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>02/10/09 12:09</i>	
Matrix Spike (9B10011-MS1)										QC Source: BSB0070-01		Extracted: 02/10/09 09:52		
Gasoline Range Hydrocarbons	NWTPH-Gx	86.6	---	7.63	mg/kg dry	1x	ND	72.6	119%	(75-130)	--	--	02/10/09 12:40	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>02/10/09 12:40</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/13/09 15:56
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B11015 Other wet Preparation Method: EPA 3580A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B11015-BLK1)													Extracted: 02/11/09 12:23	
Bunker C	NWTPH-Dx	253	---	25.0	mg/kg	1x	--	--	--	--	--	--	02/11/09 18:28	B1
Lube Oil	"	164	---	25.0	"	"	--	--	--	--	--	--	"	B1
Diesel Range Hydrocarbons	"	15.4	---	10.0	"	"	--	--	--	--	--	--	"	B1
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.9%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>02/11/09 18:28</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>94.6%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
LCS (9B11015-BS1)													Extracted: 02/11/09 12:23	
Lube Oil	NWTPH-Dx	10700	---	25.0	mg/kg	1x	--	10000	107%	(63-125)	--	--	02/11/09 19:37	
Diesel Range Hydrocarbons	"	11300	---	10.0	"	"	--	"	113%	(75-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.5%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>02/11/09 19:37</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>99.5%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
LCS Dup (9B11015-BSD1)													Extracted: 02/11/09 12:23	
Lube Oil	NWTPH-Dx	11000	---	25.0	mg/kg	1x	--	10000	110%	(63-125)	3.30%	(50)	02/11/09 19:59	
Diesel Range Hydrocarbons	"	11500	---	10.0	"	"	--	"	115%	(75-125)	1.79%	(40)	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.7%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>02/11/09 19:59</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>99.1%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/13/09 15:56
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B11004 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B11004-BLK1)										Extracted: 02/11/09 07:11				
Barium	EPA 6020	ND	---	5.05	mg/kg wet	1x	--	--	--	--	--	--	02/11/09 10:50	
Cadmium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	1.01	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
LCS (9B11004-BS1)										Extracted: 02/11/09 07:11				
Silver	EPA 6020	41.8	---	0.510	mg/kg wet	1x	--	40.8	102%	(80-120)	--	--	02/11/09 10:56	
Arsenic	"	40.9	---	0.510	"	"	--	"	100%	"	--	--	"	
Barium	"	42.0	---	5.10	"	"	--	"	103%	"	--	--	"	
Cadmium	"	40.7	---	0.510	"	"	--	"	99.7%	"	--	--	"	
Chromium	"	44.5	---	0.510	"	"	--	"	109%	"	--	--	"	
Selenium	"	42.5	---	1.02	"	"	--	"	104%	"	--	--	"	
Lead	"	40.7	---	0.510	"	"	--	"	99.8%	"	--	--	"	
Duplicate (9B11004-DUP1)										QC Source: BSB0077-02		Extracted: 02/11/09 07:11		
Silver	EPA 6020	ND	---	0.556	mg/kg dry	1x	ND	--	--	--	7.45% (20)	--	02/11/09 11:32	
Barium	"	78.7	---	5.56	"	"	85.0	--	--	--	7.66%	"	"	
Cadmium	"	ND	---	0.556	"	"	ND	--	--	--	8.10%	"	"	
Chromium	"	19.0	---	0.556	"	"	19.2	--	--	--	0.892%	"	"	
Selenium	"	ND	---	1.11	"	"	ND	--	--	--	13.8%	"	"	
Lead	"	13.6	---	0.556	"	"	15.6	--	--	--	13.8%	"	"	
Arsenic	"	5.05	---	0.556	"	"	5.08	--	--	--	0.754%	"	"	
Matrix Spike (9B11004-MS1)										QC Source: BSB0077-02		Extracted: 02/11/09 07:11		
Arsenic	EPA 6020	45.8	---	0.551	mg/kg dry	1x	5.08	44.1	92.5%	(75-125)	--	--	02/11/09 11:26	
Lead	"	59.9	---	0.551	"	"	15.6	"	101%	"	--	--	"	
Selenium	"	42.4	---	1.10	"	"	0.402	"	95.2%	"	--	--	"	
Barium	"	139	---	5.51	"	"	85.0	"	122%	"	--	--	"	
Cadmium	"	43.5	---	0.551	"	"	0.253	"	98.3%	"	--	--	"	
Chromium	"	65.7	---	0.551	"	"	19.2	"	106%	"	--	--	"	
Silver	"	39.9	---	0.551	"	"	0.0826	"	90.5%	"	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/13/09 15:56
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B11004	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9B11004-PS1)			QC Source: BSB0077-02				Extracted: 02/11/09 07:11							
Cadmium	EPA 6020	0.101	---		ug/ml	1x	0.000460	0.100	100%	(80-120)	--	--	02/11/09 11:20	
Arsenic	"	0.111	---		"	"	0.00923	0.0995	102%	"	--	--	"	
Chromium	"	0.141	---		"	"	0.0348	0.100	106%	"	--	--	"	
Barium	"	0.256	---		"	"	0.154	"	102%	"	--	--	"	
Silver	"	0.0973	---		"	"	0.000150	"	97.2%	"	--	--	"	
Selenium	"	0.101	---		"	"	0.000730	"	100%	"	--	--	"	
Lead	"	0.130	---		"	"	0.0283	"	101%	"	--	--	"	

QC Batch: 9B12014	Soil Preparation Method: EPA 7471A
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B12014-BLK1)							Extracted: 02/12/09 10:45							
Mercury	EPA 7471A	ND	---	0.0987	mg/kg wet	1x	--	--	--	--	--	--	02/12/09 12:48	
LCS (9B12014-BS1)							Extracted: 02/12/09 10:45							
Mercury	EPA 7471A	0.669	---	0.100	mg/kg wet	1x	--	0.668	100%	(80-120)	--	--	02/12/09 12:50	
LCS Dup (9B12014-BSD1)							Extracted: 02/12/09 10:45							
Mercury	EPA 7471A	0.631	---	0.0997	mg/kg wet	1x	--	0.665	94.9%	(80-120)	5.94%	(20)	02/12/09 13:28	
Matrix Spike (9B12014-MS1)			QC Source: BSB0057-01				Extracted: 02/12/09 10:45							
Mercury	EPA 7471A	0.723	---	0.0989	mg/kg dry	1x	0.0863	0.659	96.5%	(80-125)	--	--	02/12/09 12:55	
Matrix Spike Dup (9B12014-MSD1)			QC Source: BSB0057-01				Extracted: 02/12/09 10:45							
Mercury	EPA 7471A	0.735	---	0.0956	mg/kg dry	1x	0.0863	0.638	102%	(80-125)	1.68%	(30)	02/12/09 12:58	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/13/09 15:56
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Polychlorinated Biphenyls in Oil by EPA Method 8082 - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B11025 Other wet Preparation Method: EPA 3580A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B11025-BLK1)													Extracted: 02/11/09 16:13	
Aroclor 1016 [2C]	EPA 8082	ND	---	1.00	mg/kg	1x	--	--	--	--	--	--	02/13/09 12:07	
Aroclor 1221 [2C]	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1232 [2C]	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1242 [2C]	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1248 [2C]	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1254 [2C]	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1260 [2C]	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1262 [2C]	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Aroclor 1268 [2C]	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

Surrogate(s): TCX [2C] Recovery: 102% Limits: 40-130% " 02/13/09 12:07
 Decachlorobiphenyl [2C] 71.6% 40-130% " "

LCS (9B11025-BS1)													Extracted: 02/11/09 16:13	
Aroclor 1016 [2C]	EPA 8082	4.76	---	1.00	mg/kg	1x	--	5.00	95.1%	(30-132)	--	--	02/13/09 12:39	
Aroclor 1260 [2C]	"	4.30	---	1.00	"	"	--	"	85.9%	"	--	--	"	

Surrogate(s): TCX [2C] Recovery: 110% Limits: 40-130% " 02/13/09 12:39
 Decachlorobiphenyl [2C] 67.4% 40-130% " "

LCS Dup (9B11025-BSD1)													Extracted: 02/11/09 16:13	
Aroclor 1016 [2C]	EPA 8082	4.98	---	1.00	mg/kg	1x	--	5.00	99.6%	(30-132)	4.55% (19)	"	02/13/09 12:55	
Aroclor 1260 [2C]	"	4.45	---	1.00	"	"	--	"	88.9%	"	3.44%	"	"	

Surrogate(s): TCX [2C] Recovery: 111% Limits: 40-130% " 02/13/09 12:55
 Decachlorobiphenyl [2C] 65.0% 40-130% " "

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	02/13/09 15:56

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B10036 Other wet Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B10036-BLK1)													Extracted: 02/10/09 15:45	
Benzene	EPA 8260B	ND	---	1.00	mg/kg	1x	--	--	--	--	--	--	02/10/09 17:47	
Bromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Bromodichloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Bromoform	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Bromomethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Carbon tetrachloride	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Chlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Chloroform	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Chloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Dibromochloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,2-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,3-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,4-Dichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,1-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,2-Dichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,1-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
cis-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
trans-1,2-Dichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,2-Dichloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
cis-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
trans-1,3-Dichloropropene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Ethylbenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Methyl tert-butyl ether	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Methylene chloride	"	ND	---	20.0	"	"	--	--	--	--	--	--		
Naphthalene	"	ND	---	20.0	"	"	--	--	--	--	--	--		
1,1,2,2-Tetrachloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Tetrachloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Toluene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,1,1-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
1,1,2-Trichloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Trichloroethene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Trichlorofluoromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--		
Vinyl chloride	"	ND	---	1.00	"	"	--	--	--	--	--	--		
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--		
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
Xylenes (total)	"	ND	---	3.00	"	"	--	--	--	--	--	--		
		<i>1,2-DCA-d4</i>		94.0%		70-130%	"							"
		<i>1,2-DCA-d4</i>		94.0%		75-125%	"							"

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Curtis D. Armstrong For Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B10036 Other wet Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (9B10036-BLK1)

Extracted: 02/10/09 15:45

Surrogate(s): Toluene-d8	Recovery: 102%	Limits: 75-125%	Ix	02/10/09 17:47
Toluene-d8	102%	70-130%	"	"
Surrogate(s): 4-BFB	Recovery: 101%	Limits: 70-130%	"	02/10/09 17:47
4-BFB	101%	75-125%	"	"

LCS (9B10036-BS1)

Extracted: 02/10/09 15:45

Benzene	EPA 8260B	36.5	---	1.00	mg/kg	Ix	--	40.0	91.3%	(75-125)	--	--	02/10/09 16:19
Chlorobenzene	"	36.4	---	1.00	"	"	--	"	90.9%	"	--	--	"
1,1-Dichloroethene	"	40.4	---	1.00	"	"	--	"	101%	(70-130)	--	--	"
Ethylbenzene	"	36.6	---	1.00	"	"	--	"	91.6%	(75-125)	--	--	"
Methyl tert-butyl ether	"	39.8	---	5.00	"	"	--	"	99.5%	"	--	--	"
Naphthalene	"	43.4	---	20.0	"	"	--	"	108%	(60-140)	--	--	"
Toluene	"	36.7	---	1.00	"	"	--	"	91.7%	(75-125)	--	--	"
Trichloroethene	"	36.8	---	1.00	"	"	--	"	92.0%	"	--	--	"
o-Xylene	"	35.3	---	1.00	"	"	--	"	88.2%	"	--	--	"
m,p-Xylene	"	71.8	---	2.00	"	"	--	80.0	89.8%	"	--	--	"
Xylenes (total)	"	107	---	3.00	"	"	--	120	89.3%	"	--	--	"
Surrogate(s): 1,2-DCA-d4	Recovery: 100%	Limits: 75-125%	"	02/10/09 16:19									
1,2-DCA-d4	100%	70-130%	"	"									
Toluene-d8	99.0%	75-125%	"	"									
Toluene-d8	99.0%	70-130%	"	"									
Surrogate(s): 4-BFB	Recovery: 98.8%	Limits: 70-130%	"	02/10/09 16:19									
4-BFB	98.8%	75-125%	"	"									

LCS Dup (9B10036-BSD1)

Extracted: 02/10/09 15:45

Benzene	EPA 8260B	36.0	---	1.00	mg/kg	Ix	--	40.0	89.9%	(75-125)	1.54% (20)	02/10/09 16:46
Chlorobenzene	"	35.5	---	1.00	"	"	--	"	88.6%	"	2.53%	"
1,1-Dichloroethene	"	37.0	---	1.00	"	"	--	"	92.6%	(70-130)	8.61%	"
Ethylbenzene	"	35.7	---	1.00	"	"	--	"	89.2%	(75-125)	2.57%	"
Methyl tert-butyl ether	"	38.7	---	5.00	"	"	--	"	96.8%	"	2.80%	"
Naphthalene	"	43.6	---	20.0	"	"	--	"	109%	(60-140)	0.552%	"
Toluene	"	34.7	---	1.00	"	"	--	"	86.7%	(75-125)	5.60%	"
Trichloroethene	"	35.5	---	1.00	"	"	--	"	88.8%	"	3.57%	"
o-Xylene	"	34.4	---	1.00	"	"	--	"	86.1%	"	2.44%	"
m,p-Xylene	"	69.7	---	2.00	"	"	--	80.0	87.1%	"	3.07%	"
Xylenes (total)	"	104	---	3.00	"	"	--	120	86.8%	"	2.86%	"
1,2-DCA-d4	101%	70-130%	"	"								
1,2-DCA-d4	101%	75-125%	"	"								
Toluene-d8	98.6%	70-130%	"	"								
Toluene-d8	98.6%	75-125%	"	"								

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/13/09 15:56
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B10036 Other wet Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (9B10036-BSD1)										Extracted: 02/10/09 15:45				
	4-BFB	98.2%			70-130%	1x							02/10/09 16:46	
	4-BFB	98.2%			75-125%	"							"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	02/13/09 15:56
	Project Manager:	Ty Griffith	

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B12025 Other wet Preparation Method: Water Extraction

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (9B12025-DUP1)			QC Source: BSB0073-01			Extracted: 02/12/09 14:44								
pH	EPA 9045C	7.14	---		pH Units	1x	7.19	--	--	--	0.698% (10)		02/12/09 14:45	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/13/09 15:56

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 6020	Other wet	X	X
EPA 7471A	Other wet	X	X
EPA 8082	Other wet	X	X
EPA 8260B	Other wet	X	X
EPA 9045C	Other wet	X	X
NWTPH-Dx	Other wet		X
NWTPH-Gx	Other wet		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/13/09 15:56

Notes and Definitions

Report Specific Notes:

- B1 - Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
- P4 - Sample received in inappropriate sample container.
- Q9 - Hydrocarbon pattern most closely resembles Heavy Fuel Oil/Bunker C.
- RL1 - Reporting limit raised due to sample matrix effects.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSB0073**

CLIENT: VRS Corporation		INVOICE TO:		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> <1 STD.			
REPORT TO: JY GRIFFITH		P.O. NUMBER:					
ADDRESS: CENTURY SQUARE, 1501 4th AVE, SUITE 1400				* Turnaround Requests less than standard may incur Rush Charges.			
PHONE: 206 438 2700 FAX: 206 438 2699							
PROJECT NAME: WMCP PHASE 2		PRESERVATIVE		OTHER Specify:			
PROJECT NUMBER: 33759381							
SAMPLED BY: JOHN BAKER		REQUESTED ANALYSES		MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WO ID			
		CHROMIUM SOLVENTS BTEX PCPN METALS 6000/7000 HETP TPH-GX TPH-DX BUNNERD					
1	COP-TF2-OIL	02-10-09/1300					-01
2							
3							
4							
5							
6							
7							
8							
9							
10							
RELEASED BY: JLB		DATE: 02-10-09		RECEIVED BY: Tom Blankinship		DATE: 2/10/09	
PRINT NAME: JOHN BAKER		FIRM: VRS CORPORATION		PRINT NAME: Blankinship		FIRM: TA-S	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:	
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:	
ADDITIONAL REMARKS:						TEMP: 11.2 @ lab 1450 w/cs	

TAT: _____ Paperwork to PM - Date: _____ Time: _____

Non-Conformances? Circle Y or **N**

Page Time & Initials: _____

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ **Logged-in By:** _____ **Unpacked/Labeled By:** _____ **Cooler ID:** _____
(applies to temp at receipt)

Date: 2/10 Date: 2/10 Date: 2/10 Work Order No. BSB0073
 Time: 1450 Time: 1506 Time: 1520 Client: _____
 Initials: TB Initials: KH Initials: TB Project: _____

Container Type: _____ **COC Seals:** _____ **Packing Material:** _____
 Cooler Ship Container John Baker Sign By _____
 _____ Box _____ On Bottles 2/10/09 Date _____
 _____ None/Other _____ _____ None _____ None/Other _____

Refrigerant: _____ **Received Via: Bill#** _____
 _____ Gel Ice Pack _____ Fed Ex _____ Client _____
 _____ Loose Ice _____ UPS TA Courier _____
 None/Other _____ DHL _____ Mid Valley _____
 _____ Senvoy _____ TDP _____
 _____ GS _____ Other _____

Cooler Temperature (IR): 11.2 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)
 Temperature Blank? _____ °C or NA Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="radio"/> or N _____	Metals Preserved? Y or N or <input checked="" type="radio"/> NA	
Provided by TA? <input checked="" type="radio"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="radio"/> NA	
Correct Type? <input checked="" type="radio"/> or N _____	Adequate Volume? <input checked="" type="radio"/> or N _____	
#Containers match COC? <input checked="" type="radio"/> or N _____	Water VOAs: Headspace? Y or N or <input checked="" type="radio"/> NA	
IDs/time/date match COC? <input checked="" type="radio"/> or N _____	Comments: _____	
Hold Times in hold? <input checked="" type="radio"/> or N _____		

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N
 Has client been contacted regarding non-conformances? _____ Y or N If Y, _____ / _____ Date Time

PM Initials: _____ Date: _____ Time: _____

February 16, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 02/11/09 15:40.
The following list is a summary of the Work Orders contained in this report, generated on 02/16/09
15:25.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSB0083	WMCP Phase 2	33759381

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/16/09 15:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COP-T1.2-W	BSB0083-01	Water	02/11/09 14:00	02/11/09 15:40

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/16/09 15:25

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0083-01 (COP-T1.2-W)		Water		Sampled: 02/11/09 14:00						
Arsenic	EPA 6010B	ND	----	0.100	mg/l	1x	9B13017	02/13/09 11:34	02/13/09 21:36	
Barium	"	0.374	----	0.0500	"	"	"	"	"	
Cadmium	"	ND	----	0.00500	"	"	"	"	"	
Chromium	"	ND	----	0.0100	"	"	"	"	"	
Lead	"	0.0965	----	0.0500	"	"	"	"	"	
Mercury	EPA 7470A	ND	----	0.000200	"	"	9B12013	02/12/09 10:44	02/12/09 16:27	
Selenium	EPA 6010B	ND	----	0.150	"	"	9B13017	02/13/09 11:34	02/13/09 21:36	
Silver	"	ND	----	0.0100	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/16/09 15:25

Conventional Chemistry Parameters by APHA/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSB0083-01 (COP-T1.2-W)		Water			Sampled: 02/11/09 14:00					
pH	EPA 150.1	6.92	----		pH Units	1x	9B11027	02/11/09 16:50	02/11/09 16:50	HFP

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/16/09 15:25
--	---	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B12013	Water Preparation Method: EPA 7470A
--------------------------	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B12013-BLK1)								Extracted: 02/12/09 10:44						
Mercury	EPA 7470A	ND	---	0.000200	mg/l	1x	--	--	--	--	--	--	02/12/09 16:08	
LCS (9B12013-BS1)								Extracted: 02/12/09 10:44						
Mercury	EPA 7470A	0.00558	---	0.000200	mg/l	1x	--	0.00500	112%	(80-120)	--	--	02/12/09 16:10	
LCS Dup (9B12013-BSD1)								Extracted: 02/12/09 10:44						
Mercury	EPA 7470A	0.00554	---	0.000200	mg/l	1x	--	0.00500	111%	(80-120)	0.798% (20)	--	02/12/09 16:13	
Matrix Spike (9B12013-MS1)				QC Source: BSB0086-06				Extracted: 02/12/09 10:44						
Mercury	EPA 7470A	0.000703	---	0.000200	mg/l	1x	ND	0.00500	14.1%	(75-125)	--	--	02/12/09 16:15	M2
Matrix Spike Dup (9B12013-MSD1)				QC Source: BSB0086-06				Extracted: 02/12/09 10:44						
Mercury	EPA 7470A	0.000857	---	0.000200	mg/l	1x	ND	0.00500	17.1%	(75-125)	19.7% (20)	--	02/12/09 16:18	M2

QC Batch: 9B13017	Water Preparation Method: EPA 3010A
--------------------------	--

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B13017-BLK1)								Extracted: 02/13/09 11:34						
Barium	EPA 6010B	ND	---	0.0500	mg/l	1x	--	--	--	--	--	--	02/13/09 21:20	
Chromium	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.150	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
LCS (9B13017-BS1)								Extracted: 02/13/09 11:34						
Lead	EPA 6010B	5.16	---	0.0500	mg/l	1x	--	5.00	103%	(80-120)	--	--	02/13/09 21:23	
Arsenic	"	5.16	---	0.100	"	"	--	"	103%	"	--	--	"	
Selenium	"	5.04	---	0.150	"	"	--	"	101%	"	--	--	"	
Barium	"	5.27	---	0.0500	"	"	--	"	105%	"	--	--	"	
Silver	"	1.03	---	0.0100	"	"	--	1.00	103%	"	--	--	"	
Chromium	"	5.19	---	0.0100	"	"	--	5.00	104%	"	--	--	"	
Cadmium	"	5.08	---	0.00500	"	"	--	"	102%	"	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/16/09 15:25
--	---	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B13017 Water Preparation Method: EPA 3010A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Duplicate (9B13017-DUP1)			QC Source: BSB0086-06					Extracted: 02/13/09 11:34							
Silver	EPA 6010B	ND	---	0.0100	mg/l	1x	ND	--	--	--	NR (20)		02/13/09 21:29		
Arsenic	"	ND	---	0.100	"	"	ND	--	--	--	NR	" "			
Barium	"	ND	---	0.0500	"	"	ND	--	--	--	11.6%	" "			
Lead	"	0.0699	---	0.0500	"	"	0.0697	--	--	--	0.287%	" "			
Selenium	"	ND	---	0.150	"	"	ND	--	--	--	NR	" "			
Chromium	"	ND	---	0.0100	"	"	ND	--	--	--	NR	" "			
Cadmium	"	ND	---	0.00500	"	"	ND	--	--	--	9.52%	" "			
Matrix Spike (9B13017-MS1)			QC Source: BSB0086-06					Extracted: 02/13/09 11:34							
Barium	EPA 6010B	5.30	---	0.0500	mg/l	1x	0.0155	5.00	106%	(78-122)	--	--	02/13/09 21:26		
Chromium	"	5.27	---	0.0100	"	"	ND	"	105%	(80-120)	--	--			
Lead	"	5.12	---	0.0500	"	"	0.0697	"	101%	"	--	--			
Silver	"	0.995	---	0.0100	"	"	ND	1.00	99.5%	(78-125)	--	--			
Arsenic	"	5.55	---	0.100	"	"	ND	5.00	111%	(80-120)	--	--			
Cadmium	"	5.33	---	0.00500	"	"	0.00100	"	107%	"	--	--			
Selenium	"	5.51	---	0.150	"	"	ND	"	110%	"	--	--			
Post Spike (9B13017-PS1)			QC Source: BSB0086-06					Extracted: 02/13/09 11:34							
Selenium	EPA 6010B	5.38	---		ug/ml	1x	0.00450	5.00	108%	(75-125)	--	--	02/13/09 21:33		
Lead	"	5.01	---		"	"	0.0697	"	98.9%	"	--	--			
Arsenic	"	5.37	---		"	"	0.000400	"	107%	"	--	--			
Silver	"	1.00	---		"	"	0.000800	1.00	100%	"	--	--			
Cadmium	"	5.16	---		"	"	0.00100	5.00	103%	"	--	--			
Chromium	"	5.10	---		"	"	0.000800	"	102%	"	--	--			
Barium	"	5.21	---		"	"	0.0155	"	104%	"	--	--			

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/16/09 15:25

Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9B11029

Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9B11029-BLK1)										Extracted: 02/11/09 17:24				
Aroclor 1016 [S]	EPA 8082	0.00	---	TIC	ug/l	1x	--	--	--	--	--	--	02/13/09 12:23	
Aroclor 1221 [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1232 [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1242 [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1248 [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1254 [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1260 [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1262 [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Aroclor 1268 [2C]	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Surrogate(s): TCX [2C]		Recovery: 72.3%		Limits: 15-134%		"						02/13/09 12:23		
Decachlorobiphenyl [2C]		65.8%		15-127%		"						"		
LCS (9B11029-BS1)										Extracted: 02/11/09 17:24				
Aroclor 1016 [2C]	EPA 8082	2.54	---	0.500	ug/l	1x	--	2.50	102%	(74-149)	--	--	02/13/09 13:11	
Aroclor 1260 [2C]	"	2.66	---	0.500	"	"	--	"	106%	(64-137)	--	--	"	
Surrogate(s): TCX [2C]		Recovery: 81.5%		Limits: 15-134%		"						02/13/09 13:11		
Decachlorobiphenyl [2C]		72.4%		15-127%		"						"		
LCS Dup (9B11029-BSD1)										Extracted: 02/11/09 17:24				
Aroclor 1016 [2C]	EPA 8082	3.01	---	0.500	ug/l	1x	--	2.50	120%	(74-149)	16.9%	(30)	02/13/09 13:27	
Aroclor 1260 [2C]	"	2.85	---	0.500	"	"	--	"	114%	(64-137)	7.14%	(25)	"	
Surrogate(s): TCX [2C]		Recovery: 84.9%		Limits: 15-134%		"						02/13/09 13:27		
Decachlorobiphenyl [2C]		104%		15-127%		"						"		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 02/16/09 15:25
--	---	-----------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9B11027 Water Preparation Method: General Preparation

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Duplicate (9B11027-DUP1)			QC Source: BSB0083-01			Extracted: 02/11/09 16:50								
pH	EPA 150.1	6.90	---		pH Units	1x	6.92	--	--	--	0.289% (10)		02/11/09 16:50	HFP

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/16/09 15:25

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 150.1	Water	N/A	N/A
EPA 6010B	Water	X	X
EPA 7470A	Water	X	X
EPA 8082	Water	X	X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

02/16/09 15:25

Notes and Definitions

Report Specific Notes:

- HFP - Field parameter with a holding time of 15 minutes.
- M2 - The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BC 80083**

CLIENT: URS Corporation		INVOICE TO:		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: TV Griffith ADDRESS: CENTURY SQUARE, 1501 4th AVE, SUITE 1400 SEATTLE, WA 98101-1616		P.O. NUMBER:									
PHONE: 206 438 2700 FAX: 206 438 2699		PRESERVATIVE									
PROJECT NAME: WMCP PHASE 2		REQUESTED ANALYSES									
PROJECT NUMBER: 33759381											
SAMPLED BY: JOHN BAKER											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PH	PCB'S					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 COP-T1+2-W	02-11-09/ 1400	X	X	X							-09
2											
3											
4											
5											
6											
7											
8											
9											
10											
RELEASED BY: [Signature]	FIRM: URS Corporation	DATE: 02-11-09	TIME: 1510	RECEIVED BY: [Signature]	FIRM: TA-S	DATE: 2/11/09	TIME: 1510				
PRINT NAME: JOHN BAKER				PRINT NAME: Blankinship							
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	FIRM:	DATE:	TIME:				
PRINT NAME:				PRINT NAME:							
ADDITIONAL REMARKS:								TEMP: 8.3	PAGE OF		

In Lab 15:45 W/CS
 1540 TR

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

(applies to temp at receipt)

Date: 2/11/09 JB

Date: 2/11/09

Date: 2/11/09

Work Order No. B8 B0083

Time: 15:45 1540

Time: 1715

Time: 1721

Client: _____

Initials: JB

Initials: DTY

Initials: DTY

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

Ship Container _____ Sign By _____

Bubble Bags _____ Styrofoam _____

____ Box

____ On Bottles _____ Date _____

____ Foam Packs

____ None/Other _____

____ None

____ None/Other _____

Refrigerant:

Received Via: Bill# _____

____ Gel Ice Pack _____

____ Fed Ex _____ Client _____

Loose Ice _____

____ UPS _____ TA Courier

____ None/Other _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? 8.3 °C or NA w/in 4 hrs.

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? Y or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? Y or N _____

Adequate Volume? Y or N _____
(for tests requested)

#Containers match COC? Y or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? Y or N _____

Comments: _____

Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N if N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM initials: _____ Date: _____ Time: _____

March 04, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Area 1

Enclosed are the results of analyses for samples received by the laboratory on 03/03/09 17:15.
The following list is a summary of the Work Orders contained in this report, generated on 03/04/09
15:59.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0025	WMCP Phase 2 - Area 1	33759383.05000

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Area 1**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

03/04/09 15:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-SCB-4-26.5	BSC0025-01	Soil	03/03/09 16:10	03/03/09 17:15

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Area 1**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

03/04/09 15:59

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0025-01 (Area1-SCB-4-26.5)		Soil			Sampled: 03/03/09 16:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	13.6	mg/kg dry	1x	9C03018	03/03/09 18:28	03/03/09 18:31	
<i>Surrogate(s): 4-BFB (FID)</i>			<i>122%</i>		<i>80 - 140 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Area 1	Report Created:
	Project Number:	33759383.05000	03/04/09 15:59
	Project Manager:	Ty Griffith	

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0025-01 (Area1-SCB-4-26.5)		Soil			Sampled: 03/03/09 16:10					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	13.7	mg/kg dry	1x	9C03051	03/03/09 16:15	03/03/09 22:51	
Lube Oil Range Hydrocarbons	"	ND	----	34.3	"	"	"	"	"	"
Surrogate(s): 2-FBP			87.3%		54 - 148 %	"				"
Octacosane			93.0%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Area 1 Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 03/04/09 15:59
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0025-01	(Area1-SCB-4-26.5)	Soil			Sampled: 03/03/09 16:10					
Benzene	EPA 8260B	5.40	----	1.55	ug/kg dry	1x	9C03023	03/03/09 16:21	03/03/09 22:22	
Ethylbenzene	"	40.3	----	4.12	"	"	"	"	"	
Toluene	"	ND	----	1.55	"	"	"	"	"	
Total Xylenes	"	47.3	----	10.3	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>135%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>98.7%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>99.5%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Area 1	Report Created:
	Project Number:	33759383.05000	03/04/09 15:59
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0025-01	(Area1-SCB-4-26.5)	Soil			Sampled: 03/03/09 16:10					
Dry Weight	BSOPSP003R0 8	73.4	----	1.00	%	1x	9C03029	03/03/09 18:02	03/04/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Area 1 Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 03/04/09 15:59
--	--	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C03018 **Soil Preparation Method: EPA 5030B (MeOH)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9C03018-BLK1)										Extracted: 03/03/09 09:28						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/03/09 10:50			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.2%</i>		<i>Limits: 80-140%</i>		<i>"</i>						<i>03/03/09 10:50</i>				
LCS (9C03018-BS1)										Extracted: 03/03/09 09:28						
Gasoline Range Hydrocarbons	NWTPH-Gx	56.0	---	5.00	mg/kg wet	1x	--	50.0	112%	(80-120)	--	--	03/03/09 11:22			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 80-140%</i>		<i>"</i>						<i>03/03/09 11:22</i>				
Duplicate (9C03018-DUP1)										QC Source: BSC0015-07		Extracted: 03/03/09 09:28				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.28	mg/kg dry	1x	ND	--	--	--	29.4% (40)	--	03/03/09 13:31			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 118%</i>		<i>Limits: 80-140%</i>		<i>"</i>						<i>03/03/09 13:31</i>				
Matrix Spike (9C03018-MS1)										QC Source: BSC0015-07		Extracted: 03/03/09 09:28				
Gasoline Range Hydrocarbons	NWTPH-Gx	59.8	---	5.28	mg/kg dry	1x	2.45	46.3	124%	(75-130)	--	--	03/03/09 14:03			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 125%</i>		<i>Limits: 80-140%</i>		<i>"</i>						<i>03/03/09 14:03</i>				

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Area 1 Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 03/04/09 15:59
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Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C03051 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C03051-BLK1)

Extracted: 03/03/09 15:42

Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	10.0	mg/kg wet	1x	--	--	--	--	--	--	03/03/09 21:00	
Lube Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>82.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/03/09 21:00</i>	
<i>Octacosane</i>		<i>89.6%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9C03051-BS1)

Extracted: 03/03/09 15:42

Diesel Range Hydrocarbons	NWTPH-Dx	70.3	---	10.0	mg/kg wet	1x	--	66.7	105%	(58-140)	--	--	03/03/09 21:23	
Lube Oil Range Hydrocarbons	"	69.3	---	25.0	"	"	--	"	104%	(63-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>79.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/03/09 21:23</i>	
<i>Octacosane</i>		<i>92.4%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9C03051-DUP1)

QC Source: BSB0243-01

Extracted: 03/03/09 15:42

Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	13.9	mg/kg dry	1x	ND	--	--	--	NR (50)		03/03/09 21:45	
Lube Oil Range Hydrocarbons	"	ND	---	34.8	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>78.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/03/09 21:45</i>	
<i>Octacosane</i>		<i>88.0%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9C03051-MS1)

QC Source: BSB0243-01

Extracted: 03/03/09 15:42

Diesel Range Hydrocarbons	NWTPH-Dx	91.3	---	14.0	mg/kg dry	1x	ND	93.6	97.5%	(46-155)	--	--	03/03/09 22:07	
Lube Oil Range Hydrocarbons	"	93.7	---	35.1	"	"	4.80	"	95.0%	(26-150)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>77.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/03/09 22:07</i>	
<i>Octacosane</i>		<i>88.5%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Area 1 Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 03/04/09 15:59
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C03023 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C03023-BLK1)

Extracted: 03/03/09 09:57

Benzene	EPA 8260B	ND	---	1.50	ug/kg wet	1x	--	--	--	--	--	--	03/03/09 20:41	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>03/03/09 20:41</i>	
<i>Toluene-d8</i>			<i>100%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9C03023-BS1)

Extracted: 03/03/09 09:57

Benzene	EPA 8260B	47.2	---	1.50	ug/kg wet	1x	--	50.0	94.4%	(70-125)	--	--	03/03/09 19:50	
Ethylbenzene	"	46.3	---	4.00	"	"	--	"	92.6%	"	--	--	"	
Toluene	"	45.7	---	1.50	"	"	--	"	91.4%	"	--	--	"	
Total Xylenes	"	132	---	10.0	"	"	--	150	88.1%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>03/03/09 19:50</i>	
<i>Toluene-d8</i>			<i>99.7%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9C03023-BSD1)

Extracted: 03/03/09 09:57

Benzene	EPA 8260B	51.0	---	1.50	ug/kg wet	1x	--	50.0	102%	(70-125)	7.78%	(30)	03/03/09 20:16	
Ethylbenzene	"	48.7	---	4.00	"	"	--	"	97.3%	"	4.95%	"	"	
Toluene	"	47.5	---	1.50	"	"	--	"	95.0%	"	3.82%	"	"	
Total Xylenes	"	144	---	10.0	"	"	--	150	96.0%	"	8.58%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>03/03/09 20:16</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>96.6%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Area 1	Report Created:
	Project Number:	33759383.05000	03/04/09 15:59
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C03029 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C03029-BLK1)										Extracted: 03/03/09 18:02				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	03/04/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Area 1**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

03/04/09 15:59

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Area 1**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

03/04/09 15:59

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:

(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 3/3/09

Date: 3/3

Date: 3/3

Work Order No. BAC0025

Time: 1715

Time: 17:21

Time: 17:25

Client: _____

Initials: FL

Initials: FL

Initials: FL

Project: _____

Container Type:

COC Seals:

Packing Material

Cooler _____ Ship Container _____ Sign By _____
 Box _____ On Bottles _____ Date _____
 None/Other _____ None

Bubble Bags _____ Styrofoam _____
 Foam Packs _____
 None/Other _____

Refrigerant:

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Received Via: Bill#

Fed Ex _____ Client _____
 UPS TA Courier _____
 DHL _____ Mid Valley _____
 Senvoy _____ TDP _____
 GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 6.2 or NA

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____ Metals Preserved? Y or N or NA _____
Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA _____
Correct Type? or N _____ Adequate Volume? or N _____
(for tests requested)
#Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA _____
IDs/time/date match COC? or N _____ Comments: _____
Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

if Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

March 11, 2009

Melanie Young
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: COP Westlake & Mercer Cleanup Project

Enclosed are the results of analyses for samples received by the laboratory on 03/05/09 16:30.
The following list is a summary of the Work Orders contained in this report, generated on 03/11/09
17:58.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0052	COP Westlake & Mercer Clea	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

03/11/09 17:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I-030509	BSC0052-01	Water	03/05/09 09:00	03/05/09 16:30
M-030509	BSC0052-02	Water	03/05/09 09:05	03/05/09 16:30
E01-030509	BSC0052-03	Water	03/05/09 09:00	03/05/09 16:30
E02-030509	BSC0052-04	Water	03/05/09 09:05	03/05/09 16:30
E03-030509	BSC0052-05	Water	03/05/09 09:10	03/05/09 16:30

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 03/11/09 17:58
--	--	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0052-01 (I-030509)		Water			Sampled: 03/05/09 09:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	287	----	50.0	ug/l	1x	9C06016	03/06/09 11:01	03/06/09 19:14	
Surrogate(s): 4-BFB (FID)		99.0%			70 - 145 %		"		"	
BSC0052-02 (M-030509)		Water			Sampled: 03/05/09 09:05					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9C06016	03/06/09 11:01	03/06/09 20:18	
Surrogate(s): 4-BFB (FID)		98.1%			70 - 145 %		"		"	
BSC0052-03 (E01-030509)		Water			Sampled: 03/05/09 09:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9C06016	03/06/09 11:01	03/06/09 22:25	
Surrogate(s): 4-BFB (FID)		101%			70 - 145 %		"		"	
BSC0052-04 (E02-030509)		Water			Sampled: 03/05/09 09:05					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9C06016	03/06/09 11:01	03/06/09 22:57	
Surrogate(s): 4-BFB (FID)		99.2%			70 - 145 %		"		"	
BSC0052-05 (E03-030509)		Water			Sampled: 03/05/09 09:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9C06016	03/06/09 11:01	03/06/09 23:29	
Surrogate(s): 4-BFB (FID)		99.3%			70 - 145 %		"		"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 03/11/09 17:58
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0052-01RE1 (I-030509)		Water			Sampled: 03/05/09 09:00					
Diesel Range Hydrocarbons	NWTPH-Dx	1.10	----	0.245	mg/l	1x	9C06014	03/06/09 10:53	03/10/09 09:24	Q12
Lube Oil Range Hydrocarbons	"	0.593	----	0.490	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>				101%		53 - 120 %	"			"
<i>Octacosane</i>				97.5%		68 - 123 %	"			"
BSC0052-02RE1 (M-030509)		Water			Sampled: 03/05/09 09:05					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9C06014	03/06/09 10:53	03/10/09 09:46	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				82.0%		53 - 120 %	"			"
<i>Octacosane</i>				98.4%		68 - 123 %	"			"
BSC0052-03RE1 (E01-030509)		Water			Sampled: 03/05/09 09:00					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9C06014	03/06/09 10:53	03/10/09 11:15	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				83.1%		53 - 120 %	"			"
<i>Octacosane</i>				99.9%		68 - 123 %	"			"
BSC0052-04RE1 (E02-030509)		Water			Sampled: 03/05/09 09:05					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9C06014	03/06/09 10:53	03/10/09 11:36	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				81.6%		53 - 120 %	"			"
<i>Octacosane</i>				93.4%		68 - 123 %	"			"
BSC0052-05RE1 (E03-030509)		Water			Sampled: 03/05/09 09:10					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9C06014	03/06/09 10:53	03/10/09 11:58	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				86.7%		53 - 120 %	"			"
<i>Octacosane</i>				96.7%		68 - 123 %	"			"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 03/11/09 17:58
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0052-01 (I-030509)	Water			Sampled: 03/05/09 09:00						
Benzene	EPA 8260B	0.540	----	0.500	ug/l	1x	9C09018	03/09/09 14:00	03/09/09 22:37	
Ethylbenzene	"	8.18	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Total Xylenes	"	7.69	----	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		105%		80 - 120 %	"				"
	Toluene-d8		104%		80 - 120 %	"				"
	4-BFB		89.0%		80 - 120 %	"				"
BSC0052-02 (M-030509)	Water			Sampled: 03/05/09 09:05						
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9C09018	03/09/09 14:00	03/09/09 23:05	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		101%		80 - 120 %	"				"
	Toluene-d8		105%		80 - 120 %	"				"
	4-BFB		103%		80 - 120 %	"				"
BSC0052-03 (E01-030509)	Water			Sampled: 03/05/09 09:00						
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9C09018	03/09/09 14:00	03/09/09 23:34	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		105%		80 - 120 %	"				"
	Toluene-d8		104%		80 - 120 %	"				"
	4-BFB		105%		80 - 120 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 03/11/09 17:58
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C06016 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C06016-BLK1)

Extracted: 03/06/09 11:01

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	03/06/09 16:03	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>03/06/09 16:03</i>	

LCS (9C06016-BS1)

Extracted: 03/06/09 11:01

Gasoline Range Hydrocarbons	NWTPH-Gx	1090	---	50.0	ug/l	1x	--	1000	109%	(80-120)	--	--	03/06/09 16:35	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 105%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>03/06/09 16:35</i>	

Duplicate (9C06016-DUP1)

QC Source: BSC0052-01

Extracted: 03/06/09 11:01

Gasoline Range Hydrocarbons	NWTPH-Gx	274	---	50.0	ug/l	1x	287	--	--	--	4.80%	(25)	03/06/09 19:46	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 100%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>03/06/09 19:46</i>	

Matrix Spike (9C06016-MS1)

QC Source: BSC0052-01

Extracted: 03/06/09 11:01

Gasoline Range Hydrocarbons	NWTPH-Gx	1370	---	50.0	ug/l	1x	287	1000	109%	(70-135)	--	--	03/06/09 20:50	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>03/06/09 20:50</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 03/11/09 17:58
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C06014 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9C06014-BLK1)										Extracted: 03/06/09 10:53					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	03/09/09 17:27		
Lube Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>		<i>Limits:</i>								<i>03/09/09 17:27</i>			
<i>Octacosane</i>		<i>78.9%</i>		<i>53-120%</i>		<i>"</i>						<i>"</i>			
		<i>95.7%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			
LCS (9C06014-BS1)										Extracted: 03/06/09 10:53					
Diesel Range Hydrocarbons	NWTPH-Dx	1.98	---	0.250	mg/l	1x	--	2.00	99.2%	(65-120)	--	--	03/09/09 17:49		
Lube Oil Range Hydrocarbons	"	2.32	---	0.500	"	"	--	"	116%	(70-120)	--	--	"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>		<i>Limits:</i>								<i>03/09/09 17:49</i>			
<i>Octacosane</i>		<i>78.0%</i>		<i>53-120%</i>		<i>"</i>						<i>"</i>			
		<i>95.2%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			
LCS Dup (9C06014-BSD1)										Extracted: 03/06/09 10:53					MNR1
Diesel Range Hydrocarbons	NWTPH-Dx	1.94	---	0.250	mg/l	1x	--	2.00	97.1%	(65-120)	2.14% (25)		03/09/09 18:11		
Lube Oil Range Hydrocarbons	"	2.40	---	0.500	"	"	--	"	120%	(70-120)	3.33% (40)		"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>		<i>Limits:</i>								<i>03/09/09 18:11</i>			
<i>Octacosane</i>		<i>75.7%</i>		<i>53-120%</i>		<i>"</i>						<i>"</i>			
		<i>93.1%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 03/11/09 17:58
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C09018 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C09018-BLK1)

Extracted: 03/09/09 14:00

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	03/09/09 15:24	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>87.8%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>03/09/09 15:24</i>	
	<i>Toluene-d8</i>		<i>102%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>102%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS (9C09018-BS1)

Extracted: 03/09/09 14:00

Benzene	EPA 8260B	39.8	---	0.500	ug/l	1x	--	40.0	99.4%	(80-120)	--	--	03/09/09 14:25	
Ethylbenzene	"	41.6	---	0.500	"	"	--	"	104%	(75-125)	--	--	"	
Toluene	"	39.6	---	0.500	"	"	--	"	99.1%	"	--	--	"	
Total Xylenes	"	124	---	3.00	"	"	--	120	103%	"	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>89.9%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>03/09/09 14:25</i>	
	<i>Toluene-d8</i>		<i>96.8%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>100%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS Dup (9C09018-BSD1)

Extracted: 03/09/09 14:00

Benzene	EPA 8260B	39.6	---	0.500	ug/l	1x	--	40.0	98.9%	(80-120)	0.555% (20)	"	03/09/09 14:54	
Ethylbenzene	"	40.5	---	0.500	"	"	--	"	101%	(75-125)	2.78%	"	"	
Toluene	"	39.0	---	0.500	"	"	--	"	97.4%	"	1.68%	"	"	
Total Xylenes	"	121	---	3.00	"	"	--	120	101%	"	2.13%	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>88.4%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>03/09/09 14:54</i>	
	<i>Toluene-d8</i>		<i>97.0%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>99.6%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

03/11/09 17:58

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 8260B	Water	X	X
NWTPH-Dx	Water		X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

03/11/09 17:58

Notes and Definitions

Report Specific Notes:

- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Q1 - Does not match typical pattern
- Q12 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA10052**

CLIENT: WAS Corp REPORT TO: MELANIE Young ADDRESS: 1501 4th Ave Ste 1400 Seattle, WA 98101 PHONE: _____ FAX: _____		INVOICE TO: _____ P.O. NUMBER: _____		PRESERVATIVE REQUESTED ANALYSES		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses	
PROJECT NAME: WMCP PROJECT NUMBER: 33759383.05000 SAMPLED BY: MRM/JB		DATE: 3/5/09 TIME: _____		DATE: 3/5/09 TIME: 1310		DATE: 3/5/09 TIME: 1310	
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		MATRIX (W, S, O)		LOCATION/ COMMENTS	
1 I-030509		3/5/09 0900		W		Sampled by MRM 01	
2 M-030509		" " 0905		↓		MRM 02	
3 E01-030509		" " 0900		↓		JB 03	
4 E02-030509		" " 0905		↓		JB 04	
5 E03-030509		" " 0910		↓		JB 05	
6 _____		_____		_____		_____	
7 _____		_____		_____		_____	
8 _____		_____		_____		_____	
9 _____		_____		_____		_____	
10 _____		_____		_____		_____	
RELEASED BY: Math Pfeiffer PRINT NAME: MATTHEW NICKERSON FIRM: WAS		RECEIVED BY: [Signature] PRINT NAME: Francisco Luna, Jr FIRM: TH&SEA		DATE: 3/5/09 TIME: _____		DATE: 3/5/09 TIME: 1310	
ADDITIONAL REMARKS: _____		RECEIVED BY: _____ PRINT NAME: _____ FIRM: _____		DATE: _____ TIME: _____		DATE: _____ TIME: _____	
PROJECT NUMBER: 33759383.05000		FIRM: WAS		FIRM: TH&SEA		FIRM: TH&SEA	
SAMPLED BY: MRM/JB		FIRM: _____		FIRM: _____		FIRM: _____	
CLIENT SAMPLE IDENTIFICATION		FIRM: _____		FIRM: _____		FIRM: _____	
SAMPLING DATE/TIME		FIRM: _____		FIRM: _____		FIRM: _____	
DATE/TIME		FIRM: _____		FIRM: _____		FIRM: _____	
LOCATION/ COMMENTS		FIRM: _____		FIRM: _____		FIRM: _____	
MATRIX (W, S, O)		FIRM: _____		FIRM: _____		FIRM: _____	
Sampled by MRM		FIRM: _____		FIRM: _____		FIRM: _____	
MRM		FIRM: _____		FIRM: _____		FIRM: _____	
JB		FIRM: _____		FIRM: _____		FIRM: _____	
JB		FIRM: _____		FIRM: _____		FIRM: _____	
JB		FIRM: _____		FIRM: _____		FIRM: _____	
TA WO ID		FIRM: _____		FIRM: _____		FIRM: _____	
01		FIRM: _____		FIRM: _____		FIRM: _____	
02		FIRM: _____		FIRM: _____		FIRM: _____	
03		FIRM: _____		FIRM: _____		FIRM: _____	
04		FIRM: _____		FIRM: _____		FIRM: _____	
05		FIRM: _____		FIRM: _____		FIRM: _____	
OTHER Specify: _____		FIRM: _____		FIRM: _____		FIRM: _____	
* Turnaround Requests less than standard may incur Rush Charges.		FIRM: _____		FIRM: _____		FIRM: _____	
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		FIRM: _____		FIRM: _____		FIRM: _____	
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 3							

TAT: _____

Paperwork to PM – Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or **N**

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:

(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: 338

Date: 3/5/09

Date: 3/5

Date: 03/06/09

Work Order No. BA10052

Time: 1630

Time: 16:59

Time: 1315

Client: _____

Initials: FL

Initials: CL

Initials: EL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler
 Box
 None/Other _____

Ship Container
 On Bottles
 None
Sign By _____
Date _____

Bubble Bags
 Styrofoam
 Foam Packs
 None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack
 Loose Ice
 None/Other _____

Placed in freezer #46:
Y or N or **NA**
Initial/date/time _____

Fed Ex
 UPS
 DHL
 Senvoy
 GS
 Client
 TA Courier
 Mid Valley
 TDP
 Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 3.0 **C** or NA comments _____

Trip Blank? Y or **N** or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____
Provided by TA? or N _____
Correct Type? or N _____
#Containers match COC? or N _____
IDs/time/date match COC? or N _____
Hold Times in hold? or N _____

Metals Preserved? Y or N or **NA** _____
Client QAPP Preserved? or N or NA _____
Adequate Volume? or N _____
(for tests requested)
Water VOAs: Headspace? Y or **N** or NA _____
Comments: _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____
Has client been contacted regarding non-conformances? _____

Y or N
Y or N If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

March 24, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 03/19/09 15:35.
The following list is a summary of the Work Orders contained in this report, generated on 03/24/09
17:14.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0199	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area 2-I5-14	BSC0199-01	Soil	03/19/09 10:05	03/19/09 15:35
Area 2-I6-14	BSC0199-02	Soil	03/19/09 10:15	03/19/09 15:35
Area 2-I7-14	BSC0199-03	Soil	03/19/09 10:45	03/19/09 15:35
Area 2-I8-14	BSC0199-04	Soil	03/19/09 11:15	03/19/09 15:35
Area 2-J9-14	BSC0199-05	Soil	03/19/09 11:40	03/19/09 15:35
Area 2-J8-14	BSC0199-06	Soil	03/19/09 12:55	03/19/09 15:35
Area 2-J7-14	BSC0199-07	Soil	03/19/09 13:20	03/19/09 15:35
Area 2-J6-14	BSC0199-08	Soil	03/19/09 13:35	03/19/09 15:35
Area 2-H9-14	BSC0199-09	Soil	03/19/09 13:50	03/19/09 15:35
Area 2-H5-14	BSC0199-10	Soil	03/19/09 13:50	03/19/09 15:35
Dup -1	BSC0199-11	Soil	03/19/09 15:00	03/19/09 15:35

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:14

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-01 (Area 2-15-14)		Soil		Sampled: 03/19/09 10:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	6.24	mg/kg dry	1x	9C19035	03/19/09 16:50	03/19/09 17:57	MI
Surrogate(s): 4-BFB (FID)			122%		80 - 140 %	"				"
BSC0199-02RE1 (Area 2-16-14)		Soil		Sampled: 03/19/09 10:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	1520	----	82.8	mg/kg dry	10x	9C19035	03/19/09 16:50	03/20/09 10:30	
Surrogate(s): 4-BFB (FID)			139%		80 - 140 %	1x				"
BSC0199-03 (Area 2-17-14)		Soil		Sampled: 03/19/09 10:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	44.7	----	6.88	mg/kg dry	1x	9C19035	03/19/09 16:50	03/19/09 19:02	
Surrogate(s): 4-BFB (FID)			130%		80 - 140 %	"				"
BSC0199-04 (Area 2-18-14)		Soil		Sampled: 03/19/09 11:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	13.6	mg/kg dry	1x	9C19035	03/19/09 16:50	03/19/09 20:06	
Surrogate(s): 4-BFB (FID)			139%		80 - 140 %	"				"
BSC0199-05 (Area 2-J9-14)		Soil		Sampled: 03/19/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	31.9	mg/kg dry	1x	9C19035	03/19/09 16:50	03/19/09 20:38	
Surrogate(s): 4-BFB (FID)			137%		80 - 140 %	"				"
BSC0199-06 (Area 2-J8-14)		Soil		Sampled: 03/19/09 12:55						
Gasoline Range Hydrocarbons	NWTPH-Gx	18.2	----	17.1	mg/kg dry	1x	9C19035	03/19/09 16:50	03/19/09 21:10	
Surrogate(s): 4-BFB (FID)			148%		80 - 140 %	"				ZX
BSC0199-07 (Area 2-J7-14)		Soil		Sampled: 03/19/09 13:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	84.4	----	14.0	mg/kg dry	1x	9C19035	03/19/09 16:50	03/19/09 23:19	
Surrogate(s): 4-BFB (FID)			174%		80 - 140 %	"				ZX
BSC0199-08 (Area 2-J6-14)		Soil		Sampled: 03/19/09 13:35						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	6.84	mg/kg dry	1x	9C19035	03/19/09 16:50	03/19/09 23:51	
Surrogate(s): 4-BFB (FID)			123%		80 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-09 (Area 2-H9-14)		Soil		Sampled: 03/19/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	139	----	58.7	mg/kg dry	1x	9C19035	03/19/09 16:50	03/20/09 09:58	
<i>Surrogate(s): 4-BFB (FID)</i>			164%		80 - 140 %	"				ZX
BSC0199-10 (Area 2-H5-14)		Soil		Sampled: 03/19/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	51.0	----	11.0	mg/kg dry	1x	9C19035	03/19/09 16:50	03/20/09 00:23	
<i>Surrogate(s): 4-BFB (FID)</i>			170%		80 - 140 %	"				ZX
BSC0199-11 (Dup -1)		Soil		Sampled: 03/19/09 15:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	172	----	11.2	mg/kg dry	1x	9C19035	03/19/09 16:50	03/20/09 00:55	
<i>Surrogate(s): 4-BFB (FID)</i>			132%		80 - 140 %	"				

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-01 (Area 2-15-14)		Soil		Sampled: 03/19/09 10:05						
Lube Oil	NWTPH-Dx	ND	----	29.8	mg/kg dry	1x	9C19041	03/19/09 17:09	03/19/09 20:55	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.1%		60 - 135 %	"				"
<i>Octacosane</i>			112%		75 - 125 %	"				"
BSC0199-02 (Area 2-16-14)		Soil		Sampled: 03/19/09 10:15						
Lube Oil	NWTPH-Dx	63.3	----	32.3	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 09:41	
Kerosene	"	89.0	----	12.9	"	"	"	"	"	Q9
Diesel Range Hydrocarbons	"	40.8	----	12.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			88.2%		60 - 135 %	"				"
<i>Octacosane</i>			109%		75 - 125 %	"				"
BSC0199-03 (Area 2-17-14)		Soil		Sampled: 03/19/09 10:45						
Lube Oil	NWTPH-Dx	ND	----	30.4	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 10:03	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.4%		60 - 135 %	"				"
<i>Octacosane</i>			113%		75 - 125 %	"				"
BSC0199-04 (Area 2-18-14)		Soil		Sampled: 03/19/09 11:15						
Lube Oil	NWTPH-Dx	172	----	43.2	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 10:26	
Kerosene	"	23.4	----	17.3	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	66.9	----	17.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			95.7%		60 - 135 %	"				"
<i>Octacosane</i>			111%		75 - 125 %	"				"
BSC0199-05 (Area 2-J9-14)		Soil		Sampled: 03/19/09 11:40						
Lube Oil	NWTPH-Dx	ND	----	64.6	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 10:48	
Kerosene	"	ND	----	25.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	25.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			95.7%		60 - 135 %	"				"
<i>Octacosane</i>			113%		75 - 125 %	"				"

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-06 (Area 2-J8-14)		Soil			Sampled: 03/19/09 12:55					
Lube Oil	NWTPH-Dx	262	----	49.4	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 13:04	
Kerosene	"	ND	----	19.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	47.7	----	19.7	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			92.6%		60 - 135 %	"			"	
<i>Octacosane</i>			108%		75 - 125 %	"			"	
BSC0199-07 (Area 2-J7-14)		Soil			Sampled: 03/19/09 13:20					
Lube Oil	NWTPH-Dx	161	----	51.3	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 11:08	
Kerosene	"	54.7	----	20.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	84.8	----	20.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.9%		60 - 135 %	"			"	
<i>Octacosane</i>			102%		75 - 125 %	"			"	
BSC0199-08 (Area 2-J6-14)		Soil			Sampled: 03/19/09 13:35					
Lube Oil	NWTPH-Dx	ND	----	30.1	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 12:41	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.0%		60 - 135 %	"			"	
<i>Octacosane</i>			115%		75 - 125 %	"			"	
BSC0199-09 (Area 2-H9-14)		Soil			Sampled: 03/19/09 13:50					
Lube Oil	NWTPH-Dx	ND	----	120	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 10:45	
Kerosene	"	ND	----	48.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	48.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.3%		60 - 135 %	"			"	
<i>Octacosane</i>			112%		75 - 125 %	"			"	
BSC0199-10 (Area 2-H5-14)		Soil			Sampled: 03/19/09 13:50					
Lube Oil	NWTPH-Dx	162	----	38.4	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 13:27	
Kerosene	"	71.2	----	15.3	"	"	"	"	"	Q9
Diesel Range Hydrocarbons	"	110	----	15.3	"	"	"	"	"	Q13
<i>Surrogate(s): 2-FBP</i>			93.6%		60 - 135 %	"			"	
<i>Octacosane</i>			109%		75 - 125 %	"			"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-11 (Dup -1)		Soil			Sampled: 03/19/09 15:00					
Lube Oil	NWTPH-Dx	107	----	33.9	mg/kg dry	1x	9C19041	03/19/09 17:09	03/20/09 13:50	
Kerosene	"	55.3	----	13.6	"	"	"	"	"	Q9
Diesel Range Hydrocarbons	"	74.5	----	13.6	"	"	"	"	"	Q13
Surrogate(s): 2-FBP			98.6%		60 - 135 %	"				
Octacosane			111%		75 - 125 %	"				

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:14

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-01	(Area 2-I5-14)	Soil		Sampled: 03/19/09 10:05						
Lead	EPA 6020	69.2	----	0.477	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 08:19	
BSC0199-02	(Area 2-I6-14)	Soil		Sampled: 03/19/09 10:15						
Lead	EPA 6020	32.7	----	0.440	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 08:25	
BSC0199-03	(Area 2-I7-14)	Soil		Sampled: 03/19/09 10:45						
Lead	EPA 6020	11.6	----	0.494	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 08:48	
BSC0199-04	(Area 2-I8-14)	Soil		Sampled: 03/19/09 11:15						
Lead	EPA 6020	242	----	0.707	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 08:54	
BSC0199-05	(Area 2-J9-14)	Soil		Sampled: 03/19/09 11:40						
Lead	EPA 6020	212	----	1.03	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 09:00	
BSC0199-06RE1	(Area 2-J8-14)	Soil		Sampled: 03/19/09 12:55						
Lead	EPA 6020	298	----	1.59	mg/kg dry	2x	9C20004	03/20/09 05:37	03/20/09 09:42	
BSC0199-07	(Area 2-J7-14)	Soil		Sampled: 03/19/09 13:20						
Lead	EPA 6020	192	----	0.766	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 09:12	
BSC0199-08	(Area 2-J6-14)	Soil		Sampled: 03/19/09 13:35						
Lead	EPA 6020	6.76	----	0.539	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 09:18	
BSC0199-09	(Area 2-H9-14)	Soil		Sampled: 03/19/09 13:50						
Lead	EPA 6020	15.4	----	2.09	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 09:24	
BSC0199-10	(Area 2-H5-14)	Soil		Sampled: 03/19/09 13:50						
Lead	EPA 6020	59.6	----	0.377	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 09:30	
BSC0199-11	(Dup -1)	Soil		Sampled: 03/19/09 15:00						
Lead	EPA 6020	30.0	----	0.238	mg/kg dry	1x	9C20004	03/20/09 05:37	03/20/09 09:36	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-01 (Area 2-15-14)		Soil		Sampled: 03/19/09 10:05						
Benzene	EPA 8260B	ND	----	0.00125	mg/kg dry	1x	9C20002	03/20/09 04:58	03/20/09 07:30	
Ethylbenzene	"	ND	----	0.00334	"	"	"	"	"	
Toluene	"	ND	----	0.00125	"	"	"	"	"	
o-Xylene	"	ND	----	0.00418	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00418	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00836	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				101%	70 - 140 %	"				"
<i>Toluene-d8</i>				99.2%	70 - 130 %	"				"
<i>4-BFB</i>				96.8%	70 - 130 %	"				"
BSC0199-03 (Area 2-17-14)		Soil		Sampled: 03/19/09 10:45						
Benzene	EPA 8260B	0.0115	----	0.00123	mg/kg dry	1x	9C20002	03/20/09 04:58	03/20/09 08:21	
Ethylbenzene	"	0.115	----	0.00327	"	"	"	"	"	
Toluene	"	0.107	----	0.00123	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				108%	70 - 140 %	"				"
<i>Toluene-d8</i>				109%	70 - 130 %	"				"
<i>4-BFB</i>				103%	70 - 130 %	"				"
BSC0199-04RE1 (Area 2-18-14)		Soil		Sampled: 03/19/09 11:15						
Benzene	EPA 8260B	ND	----	0.00188	mg/kg dry	1x	9C20002	03/20/09 04:58	03/20/09 13:01	
Ethylbenzene	"	ND	----	0.00503	"	"	"	"	"	
Toluene	"	ND	----	0.00188	"	"	"	"	"	
o-Xylene	"	ND	----	0.00628	"	"	"	"	"	
m,p-Xylene	"	0.00716	----	0.00628	"	"	"	"	"	
Total Xylenes	"	ND	----	0.0126	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				100%	70 - 140 %	"				"
<i>Toluene-d8</i>				123%	70 - 130 %	"				"
<i>4-BFB</i>				126%	70 - 130 %	"				"
BSC0199-05 (Area 2-J9-14)		Soil		Sampled: 03/19/09 11:40						
Benzene	EPA 8260B	ND	----	0.00502	mg/kg dry	1x	9C20002	03/20/09 04:58	03/20/09 09:12	
Ethylbenzene	"	ND	----	0.0134	"	"	"	"	"	
Toluene	"	0.00645	----	0.00502	"	"	"	"	"	
o-Xylene	"	ND	----	0.0167	"	"	"	"	"	
m,p-Xylene	"	0.0308	----	0.0167	"	"	"	"	"	
Total Xylenes	"	0.0385	----	0.0334	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				104%	70 - 140 %	"				"
<i>Toluene-d8</i>				110%	70 - 130 %	"				"
<i>4-BFB</i>				105%	70 - 130 %	"				"

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Kate Haney

Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:14

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-06 (Area 2-J8-14)		Soil		Sampled: 03/19/09 12:55						
Benzene	EPA 8260B	0.0140	----	0.00344	mg/kg dry	1x	9C20002	03/20/09 04:58	03/20/09 09:37	
Ethylbenzene	"	0.0122	----	0.00917	"	"	"	"	"	
Toluene	"	0.0104	----	0.00344	"	"	"	"	"	
o-Xylene	"	0.0129	----	0.0115	"	"	"	"	"	
m,p-Xylene	"	0.0892	----	0.0115	"	"	"	"	"	
Total Xylenes	"	0.102	----	0.0229	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			110%		70 - 140 %	"				"
Toluene-d8			118%		70 - 130 %	"				"
4-BFB			114%		70 - 130 %	"				"
BSC0199-07 (Area 2-J7-14)		Soil		Sampled: 03/19/09 13:20						
Benzene	EPA 8260B	0.0283	----	0.00234	mg/kg dry	1x	9C20002	03/20/09 04:58	03/20/09 10:03	
Ethylbenzene	"	0.192	----	0.00624	"	"	"	"	"	
Toluene	"	0.177	----	0.00234	"	"	"	"	"	
o-Xylene	"	0.194	----	0.00780	"	"	"	"	"	
m,p-Xylene	"	0.544	----	0.00780	"	"	"	"	"	
Total Xylenes	"	0.739	----	0.0156	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			104%		70 - 140 %	"				"
Toluene-d8			105%		70 - 130 %	"				"
4-BFB			106%		70 - 130 %	"				"
BSC0199-08RE1 (Area 2-J6-14)		Soil		Sampled: 03/19/09 13:35						
Benzene	EPA 8260B	0.00330	----	0.00150	mg/kg dry	1x	9C20002	03/20/09 04:58	03/20/09 12:36	
Ethylbenzene	"	0.00733	----	0.00400	"	"	"	"	"	
Toluene	"	0.00893	----	0.00150	"	"	"	"	"	
o-Xylene	"	0.00751	----	0.00500	"	"	"	"	"	
m,p-Xylene	"	0.0224	----	0.00500	"	"	"	"	"	
Total Xylenes	"	0.0299	----	0.00999	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			101%		70 - 140 %	"				"
Toluene-d8			102%		70 - 130 %	"				"
4-BFB			100%		70 - 130 %	"				"

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:14

Volatile Organic Compounds (Special List) by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-02 (Area 2-I6-14)		Soil			Sampled: 03/19/09 10:15					
Benzene	EPA 8260B	3.25	----	0.0331	mg/kg dry	1x	9C20023	03/20/09 12:32	03/20/09 15:38	
Ethylbenzene	"	14.6	----	0.166	"	"	"	"	"	
Toluene	"	8.57	----	0.166	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>113%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>				<i>86.0%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>				<i>95.2%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSC0199-02RE1 (Area 2-I6-14)		Soil			Sampled: 03/19/09 10:15					
o-Xylene	EPA 8260B	17.4	----	1.66	mg/kg dry	10x	9C20023	03/20/09 12:32	03/20/09 17:25	
m,p-Xylene	"	61.0	----	3.31	"	"	"	"	"	
Total Xylenes	"	78.3	----	4.97	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>96.8%</i>	<i>75 - 125 %</i>	<i>1x</i>				<i>"</i>
<i>Toluene-d8</i>				<i>88.9%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>				<i>99.6%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSC0199-03 (Area 2-I7-14)		Soil			Sampled: 03/19/09 10:45					
o-Xylene	EPA 8260B	0.700	----	0.138	mg/kg dry	1x	9C20023	03/20/09 12:32	03/20/09 16:05	
m,p-Xylene	"	2.23	----	0.277	"	"	"	"	"	
Total Xylenes	"	2.93	----	0.415	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>97.2%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>				<i>89.5%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>				<i>100%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSC0199-09 (Area 2-H9-14)		Soil			Sampled: 03/19/09 13:50					
Benzene	EPA 8260B	ND	----	0.235	mg/kg dry	1x	9C20023	03/20/09 12:32	03/20/09 16:32	
Ethylbenzene	"	ND	----	1.17	"	"	"	"	"	
Toluene	"	ND	----	1.17	"	"	"	"	"	
o-Xylene	"	1.20	----	1.17	"	"	"	"	"	
m,p-Xylene	"	3.36	----	2.35	"	"	"	"	"	
Total Xylenes	"	4.56	----	3.52	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>94.9%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>				<i>88.1%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>				<i>101%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Volatile Organic Compounds (Special List) by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-10 (Area 2-H5-14)		Soil			Sampled: 03/19/09 13:50					
Benzene	EPA 8260B	0.298	----	0.0442	mg/kg dry	1x	9C20023	03/20/09 12:32	03/20/09 16:59	
Ethylbenzene	"	0.784	----	0.221	"	"	"	"	"	
Toluene	"	0.453	----	0.221	"	"	"	"	"	
o-Xylene	"	0.642	----	0.221	"	"	"	"	"	
m,p-Xylene	"	2.16	----	0.442	"	"	"	"	"	
Total Xylenes	"	2.80	----	0.662	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>97.0%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>90.0%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>102%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

BSC0199-11 (Dup -1)		Soil			Sampled: 03/19/09 15:00					
Benzene	EPA 8260B	0.703	----	0.0448	mg/kg dry	1x	9C23018	03/23/09 09:13	03/23/09 19:12	
Ethylbenzene	"	2.98	----	0.224	"	"	"	"	"	
Toluene	"	2.08	----	0.224	"	"	"	"	"	
o-Xylene	"	2.57	----	0.224	"	"	"	"	"	
m,p-Xylene	"	8.34	----	0.448	"	"	"	"	"	
Total Xylenes	"	10.9	----	0.672	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>106%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>95.8%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>97.3%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:14

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-01 (Area 2-15-14)		Soil								Sampled: 03/19/09 10:05
Dry Weight	BSOPSP003R0 8	83.2	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-02 (Area 2-16-14)		Soil								Sampled: 03/19/09 10:15
Dry Weight	BSOPSP003R0 8	77.9	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-03 (Area 2-17-14)		Soil								Sampled: 03/19/09 10:45
Dry Weight	BSOPSP003R0 8	80.9	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-04 (Area 2-18-14)		Soil								Sampled: 03/19/09 11:15
Dry Weight	BSOPSP003R0 8	57.5	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-05 (Area 2-J9-14)		Soil								Sampled: 03/19/09 11:40
Dry Weight	BSOPSP003R0 8	38.4	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-06 (Area 2-J8-14)		Soil								Sampled: 03/19/09 12:55
Dry Weight	BSOPSP003R0 8	49.8	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-07 (Area 2-J7-14)		Soil								Sampled: 03/19/09 13:20
Dry Weight	BSOPSP003R0 8	48.0	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-08 (Area 2-J6-14)		Soil								Sampled: 03/19/09 13:35
Dry Weight	BSOPSP003R0 8	82.9	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-09 (Area 2-H9-14)		Soil								Sampled: 03/19/09 13:50
Dry Weight	BSOPSP003R0 8	20.5	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-10 (Area 2-H5-14)		Soil								Sampled: 03/19/09 13:50
Dry Weight	BSOPSP003R0 8	64.1	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	
BSC0199-11 (Dup -1)		Soil								Sampled: 03/19/09 15:00

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	03/24/09 17:14
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0199-11 (Dup -1)		Soil			Sampled: 03/19/09 15:00					
Dry Weight	BSOPSPL003R0 8	72.6	----	1.00	%	1x	9C19025	03/19/09 18:31	03/20/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C19035 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9C19035-BLK1)													Extracted: 03/19/09 16:50			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/19/09 16:53			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/19/09 16:53</i>			
LCS (9C19035-BS1)													Extracted: 03/19/09 16:50			
Gasoline Range Hydrocarbons	NWTPH-Gx	56.5	---	5.00	mg/kg wet	1x	--	50.0	113%	(80-120)	--	--	03/19/09 17:25			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 107%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/19/09 17:25</i>			
Duplicate (9C19035-DUP1)													QC Source: BSC0199-01		Extracted: 03/19/09 16:50	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	6.24	mg/kg dry	1x	ND	--	--	--	NR (40)		03/19/09 18:30			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 125%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/19/09 18:30</i>			
Duplicate (9C19035-DUP2)													QC Source: BSC0199-03		Extracted: 03/19/09 16:50	
Gasoline Range Hydrocarbons	NWTPH-Gx	46.2	---	6.88	mg/kg dry	1x	44.7	--	--	--	3.37% (40)		03/19/09 19:34			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 127%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/19/09 19:34</i>			
Matrix Spike (9C19035-MS1)													QC Source: BSC0199-01		Extracted: 03/19/09 16:50	
Gasoline Range Hydrocarbons	NWTPH-Gx	74.6	---	6.24	mg/kg dry	1x	ND	52.3	143%	(75-130)	--	--	03/19/09 21:42	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 130%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/19/09 21:42</i>			

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C19041 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C19041-BLK1)													Extracted: 03/19/09 17:09	
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/19/09 19:04	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.9%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/19/09 19:04</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	
Blank (9C19041-BLK2)													Extracted: 03/19/09 17:09	
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/20/09 09:35	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>83.6%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/20/09 09:35</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>99.4%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	
LCS (9C19041-BS1)													Extracted: 03/19/09 17:09	
Lube Oil	NWTPH-Dx	69.2	---	25.0	mg/kg wet	1x	--	66.7	104%	(63-125)	--	--	03/19/09 19:26	
Diesel Range Hydrocarbons	"	68.2	---	10.0	"	"	--	"	102%	(75-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>79.2%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/19/09 19:26</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	
LCS (9C19041-BS2)													Extracted: 03/19/09 17:09	
Lube Oil	NWTPH-Dx	65.4	---	25.0	mg/kg wet	1x	--	66.7	98.1%	(63-125)	--	--	03/20/09 09:58	
Diesel Range Hydrocarbons	"	66.0	---	10.0	"	"	--	"	99.1%	(75-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>79.7%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/20/09 09:58</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	
Duplicate (9C19041-DUP1)													QC Source: BSC0199-01 Extracted: 03/19/09 17:09	
Lube Oil	NWTPH-Dx	ND	---	30.0	mg/kg dry	1x	ND	--	--	--	4.88% (40)		03/19/09 19:48	
Kerosene	"	ND	---	12.0	"	"	ND	--	--	--	NR	"	"	
Diesel Range Hydrocarbons	"	ND	---	12.0	"	"	ND	--	--	--	18.6%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.3%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/19/09 19:48</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>115%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	
Duplicate (9C19041-DUP2)													QC Source: BSC0199-08 Extracted: 03/19/09 17:09	
Lube Oil	NWTPH-Dx	ND	---	29.8	mg/kg dry	1x	ND	--	--	--	33.8% (40)		03/19/09 20:11	
Kerosene	"	ND	---	11.9	"	"	ND	--	--	--	NR	"	"	
Diesel Range Hydrocarbons	"	ND	---	11.9	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.5%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/19/09 20:11</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C19041 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9C19041-MS1)			QC Source: BSC0199-01				Extracted: 03/19/09 17:09							
Lube Oil	NWTPH-Dx	86.6	---	29.7	mg/kg dry	1x	7.46	79.1	100%	(26-150)	--	--	03/19/09 20:33	
Diesel Range Hydrocarbons	"	82.9	---	11.9	"	"	3.84	"	100%	(40-145)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 83.6%</i>		<i>Limits: 60-135%</i>								<i>03/19/09 20:33</i>		
<i>Octacosane</i>		<i>107%</i>		<i>75-125%</i>								<i>"</i>		

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:14
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C20004 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C20004-BLK1)								Extracted: 03/20/09 05:37						
Lead	EPA 6020	ND	---	0.510	mg/kg wet	1x	--	--	--	--	--	--	03/20/09 07:49	
LCS (9C20004-BS1)								Extracted: 03/20/09 05:37						
Lead	EPA 6020	42.0	---	0.521	mg/kg wet	1x	--	41.7	101%	(80-120)	--	--	03/20/09 07:55	
Duplicate (9C20004-DUP1)				QC Source: BSC0199-01				Extracted: 03/20/09 05:37						
Lead	EPA 6020	108	---	0.485	mg/kg dry	1x	69.2	--	--	--	43.7% (20)	--	03/20/09 08:13	R3
Matrix Spike (9C20004-MS1)				QC Source: BSC0199-01				Extracted: 03/20/09 05:37						
Lead	EPA 6020	109	---	0.514	mg/kg dry	1x	69.2	41.1	96.3%	(75-125)	--	--	03/20/09 08:07	
Post Spike (9C20004-PS1)				QC Source: BSC0199-01				Extracted: 03/20/09 05:37						
Lead	EPA 6020	0.243	---		ug/ml	1x	0.145	0.100	97.6%	(80-120)	--	--	03/20/09 08:01	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C20002 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C20002-BLK1)										Extracted: 03/20/09 04:58				
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	03/20/09 07:04	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	C4
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 81.8% Limits: 70-140% "</i>														
<i>Toluene-d8 102% 70-130% "</i>														
<i>4-BFB 98.3% 70-130% "</i>														

LCS (9C20002-BS1)										Extracted: 03/20/09 04:58				
Benzene	EPA 8260B	0.0460	---	0.00150	mg/kg wet	1x	--	0.0500	92.0%	(70-125)	--	--	03/20/09 06:13	
Ethylbenzene	"	0.0414	---	0.00400	"	"	--	"	82.8%	"	--	--	"	
Toluene	"	0.0415	---	0.00150	"	"	--	"	83.0%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 84.4% Limits: 70-140% "</i>														
<i>Toluene-d8 102% 70-130% "</i>														
<i>4-BFB 99.2% 70-130% "</i>														

LCS Dup (9C20002-BSD1)										Extracted: 03/20/09 04:58				
Benzene	EPA 8260B	0.0506	---	0.00150	mg/kg wet	1x	--	0.0500	101%	(70-125)	9.65% (30)	--	03/20/09 06:39	
Ethylbenzene	"	0.0454	---	0.00400	"	"	--	"	90.8%	"	9.15%	"	"	
Toluene	"	0.0468	---	0.00150	"	"	--	"	93.7%	"	12.1%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 81.4% Limits: 70-140% "</i>														
<i>Toluene-d8 102% 70-130% "</i>														
<i>4-BFB 96.4% 70-130% "</i>														

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 03/24/09 17:14

Volatile Organic Compounds (Special List) by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C20023 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C20023-BLK1)													Extracted: 03/20/09 10:32	
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	03/20/09 15:11	
Chlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	C
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>90.8%</i>	<i>Limits: 75-125%</i>		<i>"</i>						<i>03/20/09 15:11</i>		
<i>Toluene-d8</i>			<i>88.2%</i>	<i>75-125%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>			<i>100%</i>	<i>75-125%</i>		<i>"</i>						<i>"</i>		

LCS (9C20023-BS1)

Extracted: 03/20/09 10:32

Benzene	EPA 8260B	4.25	---	0.0200	mg/kg wet	1x	--	4.00	106%	(75-125)	--	--	03/20/09 13:44	
Chlorobenzene	"	3.38	---	0.100	"	"	--	"	84.4%	"	--	--	"	
1,1-Dichloroethene	"	5.03	---	0.100	"	"	--	"	126%	(70-130)	--	--	"	
Methyl tert-butyl ether	"	5.09	---	0.500	"	"	--	"	127%	(0-200)	--	--	"	C8
Toluene	"	3.42	---	0.100	"	"	--	"	85.6%	(75-125)	--	--	"	
Trichloroethene	"	4.11	---	0.100	"	"	--	"	103%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 75-125%</i>		<i>"</i>						<i>03/20/09 13:44</i>		
<i>Toluene-d8</i>			<i>85.7%</i>	<i>75-125%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>			<i>97.5%</i>	<i>75-125%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9C20023-BSD1)

Extracted: 03/20/09 10:32

Benzene	EPA 8260B	4.18	---	0.0200	mg/kg wet	1x	--	4.00	104%	(75-125)	1.61% (20)		03/20/09 14:11	
Chlorobenzene	"	3.25	---	0.100	"	"	--	"	81.3%	"	3.80%	"	"	
1,1-Dichloroethene	"	4.77	---	0.100	"	"	--	"	119%	(70-130)	5.31%	"	"	
Methyl tert-butyl ether	"	4.92	---	0.500	"	"	--	"	123%	(0-200)	3.39% (200)	"	"	C8
Toluene	"	3.30	---	0.100	"	"	--	"	82.5%	(75-125)	3.60% (20)	"	"	
Trichloroethene	"	4.04	---	0.100	"	"	--	"	101%	"	1.82%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 75-125%</i>		<i>"</i>						<i>03/20/09 14:11</i>		
<i>Toluene-d8</i>			<i>82.4%</i>	<i>75-125%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>			<i>96.9%</i>	<i>75-125%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:14

Volatile Organic Compounds (Special List) by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9C23018

Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C23018-BLK1)													Extracted: 03/23/09 09:13	
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	03/23/09 18:45	
Chlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 97.7% Limits: 75-125% "</i> <i>Toluene-d8 99.3% 75-125% "</i> <i>4-BFB 101% 75-125% "</i>														

LCS (9C23018-BS1)

Extracted: 03/23/09 09:13

Benzene	EPA 8260B	3.97	---	0.0200	mg/kg wet	1x	--	4.00	99.4%	(75-125)	--	--	03/23/09 17:18	
Chlorobenzene	"	3.68	---	0.100	"	"	--	"	92.1%	"	--	--	"	
1,1-Dichloroethene	"	4.14	---	0.100	"	"	--	"	103%	(70-130)	--	--	"	
Methyl tert-butyl ether	"	4.17	---	0.500	"	"	--	"	104%	(0-200)	--	--	"	
Toluene	"	3.64	---	0.100	"	"	--	"	91.0%	(75-125)	--	--	"	
Trichloroethene	"	3.81	---	0.100	"	"	--	"	95.2%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 102% Limits: 75-125% "</i> <i>Toluene-d8 94.2% 75-125% "</i> <i>4-BFB 98.8% 75-125% "</i>														

LCS Dup (9C23018-BSD1)

Extracted: 03/23/09 09:13

Benzene	EPA 8260B	3.98	---	0.0200	mg/kg wet	1x	--	4.00	99.4%	(75-125)	0.0503% (20)		03/23/09 17:45	
Chlorobenzene	"	3.62	---	0.100	"	"	--	"	90.5%	"	1.75%	"	"	
1,1-Dichloroethene	"	4.23	---	0.100	"	"	--	"	106%	(70-130)	2.15%	"	"	
Methyl tert-butyl ether	"	4.16	---	0.500	"	"	--	"	104%	(0-200)	0.0960%(200)	"	"	
Toluene	"	3.67	---	0.100	"	"	--	"	91.8%	(75-125)	0.848% (20)	"	"	
Trichloroethene	"	3.80	---	0.100	"	"	--	"	95.0%	"	0.236%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 102% Limits: 75-125% "</i> <i>Toluene-d8 93.2% 75-125% "</i> <i>4-BFB 98.2% 75-125% "</i>														

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	03/24/09 17:14
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C19025 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C19025-BLK1)										Extracted: 03/19/09 18:31				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	03/20/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:14

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:14

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the kerosene range are primarily due to overlap from heavy oil range product
- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C4 - Calibration Verification recovery was below the method control limit for this analyte.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I2 - Internal Standard recovery was outside of method limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Q13 - Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- Q9 - Hydrocarbon pattern most closely resembles gasoline.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSC0199**

CLIENT: Conoco Phillips / WRS		INVOICE TO: Conoco Phillips	
REPORT TO: Conoco Phillips / WRS		PRESERVATIVE	
ADDRESS:		P.O. NUMBER:	
PHONE:		FAX:	
PROJECT NAME: WMCP Phase 2		REQUESTED ANALYSES	
PROJECT NUMBER:		LEAD	
SAMPLED BY: Matthew McKibbin		BTEX	
CLIENT SAMPLE IDENTIFICATION		METH	
SAMPLING DATE/TIME		METH	
1 AREA2-I5-14	3-19-09 7005	X	X
2 " -I6-14	" " 1015	X	X
3 " -I7-14	" " 1045	X	X
4 " -I8-14	" " 1115	X	X
5 " -I9-14	" " 1140	X	X
6 " -J8-14	" " 1255	X	X
7 " -J7-14	" " 1320	X	X
8 " -J6-14	" " 1335	X	X
9 " -H9-14	" " 1350	X	X
10 " -H5-14	" " 1410	X	X

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 5 4 3 2 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
S	5		01
			02
			03
			04
			05
			06
			07
			08
			09
			10

RECEIVED BY: **Robert Blankinship** DATE: 3/19/09

PRINT NAME: **Robert Blankinship** FIRM: **TA-S** TIME: 1500

RECEIVED BY: DATE:

PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS: **@lab 1535**

TEMP: **14.0** PAGE: **1** OF **2**

TAL-1000(0408)

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances? Circle Y or **N**

Page Time & Initials: _____

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____

(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: wla

Date: 3/19/09

Date: 3/19/09

Date: 3/19/09

Work Order No. BSC0199

Time: 1535

Time: 1548

Time: 1600

Client: _____

Initials: TR

Initials: CR

Initials: CR

Project: _____

Container Type: _____

COC Seals: _____

Packing Material: _____

Cooler

____ Ship Container

____ Sign By

Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant: _____

Gel Ice Pack _____

____ Loose Ice _____

____ None/Other _____

Received Via: Bill# _____

____ Fed Ex _____ Client

____ UPS TA Courier

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? 14.0 °C or NA

(circle one)

14.0, 2.7 w/in 4

Trip Blank? Y or **N** or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers: _____

ID

ID

Intact? or N

Metals Preserved? Y or N or **NA**

Provided by TA? or N

Client QAPP Preserved? Y or N or **NA**

Correct Type? or N

Adequate Volume? or N

#Containers match COC? or N

Water VOAs: Headspace? Y or N or **NA**

IDs/time/date match COC? or N

Comments: _____

Hold Times in hold? or N

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____

Has client been contacted regarding non-conformances? _____

Y or N
Y or N

If Y, _____ / _____
Date Time

PM Initials: _____

Date: _____

Time: _____

March 23, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 03/20/09 16:50.
The following list is a summary of the Work Orders contained in this report, generated on 03/23/09
12:20.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0225	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/23/09 12:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area2-K5-14	BSC0225-01	Soil	03/20/09 08:55	03/20/09 16:50
Area2-K6-14	BSC0225-02	Soil	03/20/09 10:25	03/20/09 16:50
Area2-K8-14	BSC0225-03	Soil	03/20/09 11:05	03/20/09 16:50
Area2-K10-14	BSC0225-04	Soil	03/20/09 13:10	03/20/09 16:50
Area2-K7-14	BSC0225-05	Soil	03/20/09 13:30	03/20/09 16:50

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/23/09 12:20

Analytical Case Narrative

TestAmerica - Seattle, WA

BSC0225

Volatile Organic Compounds by EPA Method 8260B (5035/8260B):

The original analysis for laboratory sample BSC0225-01 yielded results that were over the calibration range for Ethylbenzene and Xylenes. The sample was re-shot on the instrument as BSC0225-01RE1. The results for the re-analysis were inconsistent with the original results.

The internal standard responses for both the initial analysis and re-analysis were within acceptance limits and the chromatograms were similar in overall shape and peak detection. It is the determination of the laboratory that sample aliquots obtained for the two VOA Vials submitted for the 5035/8260B method were non-homogeneous. Both sets of data have been included in the final report with the appropriate qualification.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/23/09 12:20

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0225-01 (Area2-K5-14)		Soil		Sampled: 03/20/09 08:55						
Gasoline Range Hydrocarbons	NWTPH-Gx	56.2	----	7.48	mg/kg dry	1x	9C20039	03/20/09 18:00	03/20/09 19:07	MI
Surrogate(s): 4-BFB (FID)			128%		80 - 140 %	"				"
BSC0225-02 (Area2-K6-14)		Soil		Sampled: 03/20/09 10:25						
Gasoline Range Hydrocarbons	NWTPH-Gx	13.9	----	7.36	mg/kg dry	1x	9C20039	03/20/09 18:00	03/20/09 20:11	
Surrogate(s): 4-BFB (FID)			127%		80 - 140 %	"				"
BSC0225-03 (Area2-K8-14)		Soil		Sampled: 03/20/09 11:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	7.74	mg/kg dry	1x	9C20039	03/20/09 18:00	03/20/09 20:43	
Surrogate(s): 4-BFB (FID)			127%		80 - 140 %	"				"
BSC0225-04 (Area2-K10-14)		Soil		Sampled: 03/20/09 13:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	7.03	mg/kg dry	1x	9C20039	03/20/09 18:00	03/20/09 21:15	
Surrogate(s): 4-BFB (FID)			120%		80 - 140 %	"				"
BSC0225-05 (Area2-K7-14)		Soil		Sampled: 03/20/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	7.94	----	6.50	mg/kg dry	1x	9C20039	03/20/09 18:00	03/20/09 21:47	
Surrogate(s): 4-BFB (FID)			126%		80 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/23/09 12:20
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0225-01 (Area2-K5-14)		Soil		Sampled: 03/20/09 08:55						
Lube Oil	NWTPH-Dx	ND	----	30.7	mg/kg dry	1x	9C20024	03/20/09 17:30	03/21/09 00:59	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.2%		60 - 135 %	"				"
<i>Octacosane</i>			112%		75 - 125 %	"				"
BSC0225-02 (Area2-K6-14)		Soil		Sampled: 03/20/09 10:25						
Lube Oil	NWTPH-Dx	33.3	----	31.3	mg/kg dry	1x	9C20024	03/20/09 17:30	03/21/09 01:20	
Kerosene	"	ND	----	12.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.1%		60 - 135 %	"				"
<i>Octacosane</i>			119%		75 - 125 %	"				"
BSC0225-03 (Area2-K8-14)		Soil		Sampled: 03/20/09 11:05						
Lube Oil	NWTPH-Dx	ND	----	32.1	mg/kg dry	1x	9C20024	03/20/09 17:30	03/21/09 01:41	
Kerosene	"	ND	----	12.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.9%		60 - 135 %	"				"
<i>Octacosane</i>			113%		75 - 125 %	"				"
BSC0225-04 (Area2-K10-14)		Soil		Sampled: 03/20/09 13:10						
Lube Oil	NWTPH-Dx	ND	----	29.8	mg/kg dry	1x	9C20024	03/20/09 17:30	03/21/09 02:03	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.9%		60 - 135 %	"				"
<i>Octacosane</i>			113%		75 - 125 %	"				"
BSC0225-05 (Area2-K7-14)		Soil		Sampled: 03/20/09 13:30						
Lube Oil	NWTPH-Dx	ND	----	30.8	mg/kg dry	1x	9C20024	03/20/09 17:30	03/21/09 02:25	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.9%		60 - 135 %	"				"
<i>Octacosane</i>			117%		75 - 125 %	"				"

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/23/09 12:20

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0225-01 (Area2-K5-14)		Soil		Sampled: 03/20/09 08:55						
Lead	EPA 6020	74.9	----	0.624	mg/kg dry	1x	9C20046	03/20/09 18:09	03/23/09 08:44	
BSC0225-02 (Area2-K6-14)		Soil		Sampled: 03/20/09 10:25						
Lead	EPA 6020	15.8	----	0.616	mg/kg dry	1x	9C20046	03/20/09 18:09	03/23/09 09:08	
BSC0225-03 (Area2-K8-14)		Soil		Sampled: 03/20/09 11:05						
Lead	EPA 6020	22.6	----	0.628	mg/kg dry	1x	9C20046	03/20/09 18:09	03/23/09 09:14	
BSC0225-04 (Area2-K10-14)		Soil		Sampled: 03/20/09 13:10						
Lead	EPA 6020	103	----	0.589	mg/kg dry	1x	9C20046	03/20/09 18:09	03/23/09 09:20	
BSC0225-05 (Area2-K7-14)		Soil		Sampled: 03/20/09 13:30						
Lead	EPA 6020	8.81	----	0.634	mg/kg dry	1x	9C20046	03/20/09 18:09	03/23/09 09:26	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/23/09 12:20
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0225-01 (Area2-K5-14)		Soil			Sampled: 03/20/09 08:55					NI
Benzene	EPA 8260B	56.0	----	1.44	ug/kg dry	1x	9C20041	03/20/09 18:19	03/20/09 19:38	
Ethylbenzene	"	632	----	3.84	"	"	"	"	"	E
Toluene	"	186	----	1.44	"	"	"	"	"	
o-Xylene	"	520	----	4.80	"	"	"	"	"	E
m,p-Xylene	"	1060	----	4.80	"	"	"	"	"	E
Total Xylenes	"	1580	----	9.60	"	"	"	"	"	E

Surrogate(s): 1,2-DCA-d4 110% 70 - 140 % "
 Toluene-d8 105% 70 - 130 % "
 4-BFB 114% 70 - 130 % "

BSC0225-01RE1 (Area2-K5-14)		Soil			Sampled: 03/20/09 08:55					NI
Benzene	EPA 8260B	6.30	----	1.75	ug/kg dry	1x	9C20041	03/20/09 18:19	03/20/09 20:03	
Ethylbenzene	"	38.8	----	4.68	"	"	"	"	"	
Toluene	"	27.5	----	1.75	"	"	"	"	"	
o-Xylene	"	52.9	----	5.84	"	"	"	"	"	
m,p-Xylene	"	138	----	5.84	"	"	"	"	"	
Total Xylenes	"	191	----	11.7	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 100% 70 - 140 % "
 Toluene-d8 102% 70 - 130 % "
 4-BFB 101% 70 - 130 % "

BSC0225-02 (Area2-K6-14)		Soil			Sampled: 03/20/09 10:25					
Benzene	EPA 8260B	ND	----	1.94	ug/kg dry	1x	9C20041	03/20/09 18:19	03/20/09 20:29	
Ethylbenzene	"	ND	----	5.17	"	"	"	"	"	
Toluene	"	ND	----	1.94	"	"	"	"	"	
o-Xylene	"	ND	----	6.46	"	"	"	"	"	
m,p-Xylene	"	ND	----	6.46	"	"	"	"	"	
Total Xylenes	"	ND	----	12.9	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 101% 70 - 140 % "
 Toluene-d8 99.9% 70 - 130 % "
 4-BFB 103% 70 - 130 % "

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Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/23/09 12:20

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0225-03RE1 (Area2-K8-14)		Soil		Sampled: 03/20/09 11:05						
Benzene	EPA 8260B	ND	----	1.33	ug/kg dry	1x	9C20041	03/20/09 18:19	03/20/09 23:28	
Ethylbenzene	"	ND	----	3.54	"	"	"	"	"	
Toluene	"	ND	----	1.33	"	"	"	"	"	
o-Xylene	"	ND	----	4.43	"	"	"	"	"	
m,p-Xylene	"	ND	----	4.43	"	"	"	"	"	
Total Xylenes	"	ND	----	8.86	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>105%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>98.0%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>98.4%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
BSC0225-04 (Area2-K10-14)		Soil		Sampled: 03/20/09 13:10						
Benzene	EPA 8260B	ND	----	1.50	ug/kg dry	1x	9C20041	03/20/09 18:19	03/20/09 22:36	
Ethylbenzene	"	ND	----	4.01	"	"	"	"	"	
Toluene	"	ND	----	1.50	"	"	"	"	"	
o-Xylene	"	ND	----	5.01	"	"	"	"	"	
m,p-Xylene	"	ND	----	5.01	"	"	"	"	"	
Total Xylenes	"	ND	----	10.0	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>104%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>108%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>111%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
BSC0225-05 (Area2-K7-14)		Soil		Sampled: 03/20/09 13:30						
Benzene	EPA 8260B	ND	----	1.47	ug/kg dry	1x	9C20041	03/20/09 18:19	03/20/09 21:45	
Ethylbenzene	"	ND	----	3.93	"	"	"	"	"	
Toluene	"	ND	----	1.47	"	"	"	"	"	
o-Xylene	"	ND	----	4.91	"	"	"	"	"	
m,p-Xylene	"	ND	----	4.91	"	"	"	"	"	
Total Xylenes	"	ND	----	9.83	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>107%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>97.9%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>97.9%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0225-01 (Area2-K5-14)		Soil			Sampled: 03/20/09 08:55					
Dry Weight	BSOPSP003R0 8	80.1	----	1.00	%	1x	9C20045	03/20/09 17:50	03/23/09 00:00	
BSC0225-02 (Area2-K6-14)		Soil			Sampled: 03/20/09 10:25					
Dry Weight	BSOPSP003R0 8	79.6	----	1.00	%	1x	9C20045	03/20/09 17:50	03/23/09 00:00	
BSC0225-03 (Area2-K8-14)		Soil			Sampled: 03/20/09 11:05					
Dry Weight	BSOPSP003R0 8	78.1	----	1.00	%	1x	9C20045	03/20/09 17:50	03/23/09 00:00	
BSC0225-04 (Area2-K10-14)		Soil			Sampled: 03/20/09 13:10					
Dry Weight	BSOPSP003R0 8	83.2	----	1.00	%	1x	9C20045	03/20/09 17:50	03/23/09 00:00	
BSC0225-05 (Area2-K7-14)		Soil			Sampled: 03/20/09 13:30					
Dry Weight	BSOPSP003R0 8	81.3	----	1.00	%	1x	9C20045	03/20/09 17:50	03/23/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C20039 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C20039-BLK1)

Extracted: 03/20/09 18:00

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/20/09 18:03	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/20/09 18:03</i>	

LCS (9C20039-BS1)

Extracted: 03/20/09 18:00

Gasoline Range Hydrocarbons	NWTPH-Gx	30.8	---	5.00	mg/kg wet	1x	--	30.0	102%	(80-120)	--	--	03/20/09 18:35	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 105%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/20/09 18:35</i>	

Duplicate (9C20039-DUP1)

QC Source: BSC0225-01

Extracted: 03/20/09 18:00

Gasoline Range Hydrocarbons	NWTPH-Gx	56.8	---	7.48	mg/kg dry	1x	56.2	--	--	--	0.961% (40)	--	03/20/09 19:39	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 128%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/20/09 19:39</i>	

Matrix Spike (9C20039-MS1)

QC Source: BSC0225-01

Extracted: 03/20/09 18:00

Gasoline Range Hydrocarbons	NWTPH-Gx	153	---	7.48	mg/kg dry	1x	56.2	62.4	155%	(75-130)	--	--	03/20/09 22:19	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 136%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/20/09 22:19</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/23/09 12:20
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C20024 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9C20024-BLK1)													Extracted: 03/20/09 12:10			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/20/09 19:55			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.7%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/20/09 19:55</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
LCS (9C20024-BS1)													Extracted: 03/20/09 12:10			
Lube Oil	NWTPH-Dx	72.0	---	25.0	mg/kg wet	1x	--	66.7	108%	(63-125)	--	--	03/20/09 20:17			
Diesel Range Hydrocarbons	"	73.2	---	10.0	"	"	--	"	110%	(75-125)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.6%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/20/09 20:17</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
Duplicate (9C20024-DUP1)													QC Source: BSC0184-01		Extracted: 03/20/09 12:10	
Lube Oil	NWTPH-Dx	31.5	---	25.2	mg/kg wet	1x	ND	--	--	--	31.1% (40)		03/20/09 20:39	R3		
Kerosene	"	164	---	10.1	"	"	74.0	--	--	--	75.7%	"	"	R3		
Diesel Range Hydrocarbons	"	219	---	10.1	"	"	100	--	--	--	74.1%	"	"	R3		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/20/09 20:39</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
Duplicate (9C20024-DUP2)													QC Source: BSC0225-03		Extracted: 03/20/09 12:10	
Lube Oil	NWTPH-Dx	ND	---	31.8	mg/kg dry	1x	ND	--	--	--	17.6% (40)		03/20/09 21:01			
Kerosene	"	ND	---	12.7	"	"	ND	--	--	--	NR	"	"			
Diesel Range Hydrocarbons	"	ND	---	12.7	"	"	ND	--	--	--	NR	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>92.3%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/20/09 21:01</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9C20024-MS1)													QC Source: BSC0184-01		Extracted: 03/20/09 12:10	
Lube Oil	NWTPH-Dx	113	---	25.2	mg/kg wet	1x	23.0	67.1	134%	(26-150)	--	--	03/20/09 21:23	M1		
Diesel Range Hydrocarbons	"	217	---	10.1	"	"	100	"	173%	(40-145)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.7%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/20/09 21:23</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			

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Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C20046	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C20046-BLK1)								Extracted: 03/20/09 18:09						
Lead	EPA 6020	ND	---	0.521	mg/kg wet	1x	--	--	--	--	--	--	03/23/09 08:09	
LCS (9C20046-BS1)								Extracted: 03/20/09 18:09						
Lead	EPA 6020	40.9	---	0.500	mg/kg wet	1x	--	40.0	102%	(80-120)	--	--	03/23/09 08:15	
Duplicate (9C20046-DUP1)				QC Source: BSC0170-01				Extracted: 03/20/09 18:09						
Lead	EPA 6020	116	---	0.549	mg/kg dry	1x	84.9	--	--	--	30.7% (20)	--	03/23/09 08:32	R3
Matrix Spike (9C20046-MS1)				QC Source: BSC0170-01				Extracted: 03/20/09 18:09						
Lead	EPA 6020	127	---	0.566	mg/kg dry	1x	84.9	45.3	93.4%	(75-125)	--	--	03/23/09 08:27	
Post Spike (9C20046-PS1)				QC Source: BSC0170-01				Extracted: 03/20/09 18:09						
Lead	EPA 6020	0.247	---		ug/ml	1x	0.152	0.100	94.5%	(80-120)	--	--	03/23/09 08:21	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C20041 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C20041-BLK1)

Extracted: 03/20/09 17:19

Benzene	EPA 8260B	ND	---	1.50	ug/kg wet	1x	--	--	--	--	--	--	03/20/09 19:13	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 89.2% Limits: 70-140% "</i>														<i>03/20/09 19:13</i>
<i>Toluene-d8 99.8% 70-130% "</i>														<i>"</i>
<i>4-BFB 99.7% 70-130% "</i>														<i>"</i>

LCS (9C20041-BS1)

Extracted: 03/20/09 17:19

Benzene	EPA 8260B	52.2	---	1.50	ug/kg wet	1x	--	50.0	104%	(70-125)	--	--	03/20/09 18:22	
Ethylbenzene	"	48.0	---	4.00	"	"	--	"	95.9%	"	--	--	"	
Toluene	"	48.7	---	1.50	"	"	--	"	97.4%	"	--	--	"	
Total Xylenes	"	132	---	10.0	"	"	--	150	88.1%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 81.0% Limits: 70-140% "</i>														<i>03/20/09 18:22</i>
<i>Toluene-d8 104% 70-130% "</i>														<i>"</i>
<i>4-BFB 101% 70-130% "</i>														<i>"</i>

LCS Dup (9C20041-BSD1)

Extracted: 03/20/09 17:19

Benzene	EPA 8260B	53.0	---	1.50	ug/kg wet	1x	--	50.0	106%	(70-125)	1.54%	(30)	03/20/09 18:47	
Ethylbenzene	"	47.6	---	4.00	"	"	--	"	95.1%	"	0.858%	"	"	
Toluene	"	49.2	---	1.50	"	"	--	"	98.5%	"	1.08%	"	"	
Total Xylenes	"	134	---	10.0	"	"	--	150	89.1%	(70-130)	1.08%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 82.7% Limits: 70-140% "</i>														<i>03/20/09 18:47</i>
<i>Toluene-d8 105% 70-130% "</i>														<i>"</i>
<i>4-BFB 96.8% 70-130% "</i>														<i>"</i>

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	03/23/09 12:20
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C20045 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C20045-BLK1)										Extracted: 03/20/09 17:50				
Dry Weight	BSOPSP00 3R08	99.8	---	1.00	%	1x	--	--	--	--	--	--	03/23/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/23/09 12:20

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/23/09 12:20

Notes and Definitions

Report Specific Notes:

- E - Concentration exceeds the calibration range and therefore result is semi-quantitative.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- N1 - See case narrative.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BAD225**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST					
REPORT TO:		P.O. NUMBER:		in Business Days *					
ADDRESS:		PRESERVATIVE		<input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1					
PHONE:		PROJECT NUMBER:		Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses					
FAX:		PROJECT NAME: WMCP		<input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> <1					
SAMPLED BY: Matthew McKibbin		REQUESTED ANALYSES		OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.					
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NET PH	NET TH	NET G	NET B	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 Area 2-K5-14	3/20/09 0855	X	X	X	X	S	4		01
2 " " -K6-14	" " 1025	X	X	X	X	I	1		02
3 " " K8-14	" " 1105	X	X	X	X	I	1		03
4 " " K10-14	" " 1310	X	X	X	X	I	1		04
5 " " K7-14	" " 1330	X	X	X	X	I	1		05
6									
7									
8									
9									
10									
RELEASED BY: Matthew McKibbin	FIRM: WAS	DATE: 3/20/09	TIME: 1530	RECEIVED BY: Blank Ship	FIRM: TA-S	DATE: 3/20/09	TIME: 1530	RECEIVED BY: Blank Ship PRINT NAME: Blank Ship RECEIVED BY: Blank Ship PRINT NAME:	
PROJECT NAME: MATTHEW MCKIBBIN		FIRM: WAS		FIRM: TA-S		DATE: 3/20/09		TIME: 1530	
PROJECT NUMBER:		FIRM: WAS		FIRM: TA-S		DATE: 3/20/09		TIME: 1530	
SAMPLED BY: Matthew McKibbin		FIRM: WAS		FIRM: TA-S		DATE: 3/20/09		TIME: 1530	
ADDRESS:		FIRM: WAS		FIRM: TA-S		DATE: 3/20/09		TIME: 1530	
PHONE:		FIRM: WAS		FIRM: TA-S		DATE: 3/20/09		TIME: 1530	
FAX:		FIRM: WAS		FIRM: TA-S		DATE: 3/20/09		TIME: 1530	
PROJECT NAME: WMCP		FIRM: WAS		FIRM: TA-S		DATE: 3/20/09		TIME: 1530	
PROJECT NUMBER:		FIRM: WAS		FIRM: TA-S		DATE: 3/20/09		TIME: 1530	
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FAX:		FIRM: WAS		FIRM: TA-S		DATE: 3/20/09			

TAT: _____

Paperwork to PM – Date: _____ Time: _____

Non-Conformances? Circle Y or **(N)**

Page Time & Initials: _____

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 3/20/09

Date: 3/20

Date: 3/20

Work Order No. BAL0225

Time: 16:50

Time: 17:05

Time: 18:35

Client: _____

Initials: TB

Initials: CL

Initials: CL

Project: _____

Container Type: _____

COC Seals: _____

Packing Material: _____

Cooler

____ Ship Container _____ Sign By

Bubble Bags _____ Styrofoam

____ Box

____ On Bottles _____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant: _____

Gel Ice Pack _____

Received Via: Bill# _____

____ Fed Ex _____ Client

____ Loose Ice _____

____ UPS TA Courier

____ None/Other _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 6.0 °C or NA

Trip Blank? Y or **(N)** or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers: _____

ID

ID

Intact? or N _____

Metals Preserved? Y or N or **(NA)** _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or **(NA)** _____

Correct Type? or N _____

Adequate Volume? or N _____
(for tests requested)

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or **(NA)** _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____

Y or N

Has client been contacted regarding non-conformances? _____

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 01, 2009

Melanie Young
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: COP Westlake & Mercer Cleanup Project

Enclosed are the results of analyses for samples received by the laboratory on 03/20/09 16:50.
The following list is a summary of the Work Orders contained in this report, generated on 04/01/09
09:35.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0230	COP Westlake & Mercer Clea	Westlake & Mercer Cleanup P

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: Westlake & Mercer Cleanup Project

Project Manager: Melanie Young

Report Created:
04/01/09 09:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I-032009	BSC0230-01	Water	03/20/09 10:35	03/20/09 16:50
M-032009	BSC0230-02	Water	03/20/09 10:40	03/20/09 16:50
EO1-032009	BSC0230-03	Water	03/20/09 10:40	03/20/09 16:50
EO2-032009	BSC0230-04	Water	03/20/09 10:50	03/20/09 16:50
EO3-032009	BSC0230-05	Water	03/20/09 11:00	03/20/09 16:50

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: Westlake & Mercer Cleanup Project Project Manager: Melanie Young	Report Created: 04/01/09 09:35
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0230-01 (I-032009)		Water			Sampled: 03/20/09 10:35					
Gasoline Range Hydrocarbons	NWTPH-Gx	5390	----	250	ug/l	5x	9C24004	03/24/09 07:12	03/24/09 15:23	
Surrogate(s): 4-BFB (FID)			105%		70 - 145 %	1x				"
BSC0230-02 (M-032009)		Water			Sampled: 03/20/09 10:40					
Gasoline Range Hydrocarbons	NWTPH-Gx	95.2	----	50.0	ug/l	1x	9C24004	03/24/09 07:12	03/24/09 11:07	
Surrogate(s): 4-BFB (FID)			100%		70 - 145 %	"				"
BSC0230-03 (EO1-032009)		Water			Sampled: 03/20/09 10:40					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9C24004	03/24/09 07:12	03/24/09 12:11	
Surrogate(s): 4-BFB (FID)			103%		70 - 145 %	"				"
BSC0230-04 (EO2-032009)		Water			Sampled: 03/20/09 10:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9C24004	03/24/09 07:12	03/24/09 12:43	
Surrogate(s): 4-BFB (FID)			103%		70 - 145 %	"				"
BSC0230-05 (EO3-032009)		Water			Sampled: 03/20/09 11:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9C24004	03/24/09 07:12	03/24/09 13:15	
Surrogate(s): 4-BFB (FID)			103%		70 - 145 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: Westlake & Mercer Cleanup Project Project Manager: Melanie Young	Report Created: 04/01/09 09:35
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0230-01RE1 (I-032009)		Water			Sampled: 03/20/09 10:35					
Diesel Range Hydrocarbons	NWTPH-Dx	3.00	----	0.236	mg/l	1x	9C24007	03/24/09 08:33	03/26/09 13:24	Q1
Lube Oil Range Hydrocarbons	"	0.612	----	0.472	"	"	"	"	"	Q7
<i>Surrogate(s): 2-FBP</i>			105%		53 - 120 %	"				"
<i>Octacosane</i>			99.2%		68 - 123 %	"				"
BSC0230-02 (M-032009)		Water			Sampled: 03/20/09 10:40					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9C24007	03/24/09 08:33	03/25/09 20:13	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			73.3%		53 - 120 %	"				"
<i>Octacosane</i>			83.3%		68 - 123 %	"				"
BSC0230-03RE1 (EO1-032009)		Water			Sampled: 03/20/09 10:40					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9C24007	03/24/09 08:33	03/26/09 13:01	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.7%		53 - 120 %	"				"
<i>Octacosane</i>			92.7%		68 - 123 %	"				"
BSC0230-04 (EO2-032009)		Water			Sampled: 03/20/09 10:50					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9C24007	03/24/09 08:33	03/25/09 20:57	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			78.2%		53 - 120 %	"				"
<i>Octacosane</i>			86.7%		68 - 123 %	"				"
BSC0230-05 (EO3-032009)		Water			Sampled: 03/20/09 11:00					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9C24007	03/24/09 08:33	03/25/09 21:19	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.3%		53 - 120 %	"				"
<i>Octacosane</i>			97.3%		68 - 123 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	COP Westlake & Mercer Cleanup Project	
	Project Number:	Westlake & Mercer Cleanup Project	Report Created:
	Project Manager:	Melanie Young	04/01/09 09:35

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0230-03 (EO1-032009)		Water			Sampled: 03/20/09 10:40					
Zinc	EPA 6020	0.0176	----	0.0100	mg/l	1x	9C25021	03/25/09 11:50	03/26/09 14:17	

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: Westlake & Mercer Cleanup Project
 Project Manager: Melanie Young

Report Created:
 04/01/09 09:35

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0230-01 (I-032009)		Water			Sampled: 03/20/09 10:35					
Benzene	EPA 8260B	85.4	----	0.500	ug/l	1x	9C23039	03/23/09 15:45	03/23/09 21:51	
Ethylbenzene	"	71.0	----	0.500	"	"	"	"	"	
Toluene	"	93.0	----	0.500	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			87.8%		80 - 120 %	"				"
Toluene-d8			95.6%		80 - 120 %	"				"
4-BFB			97.6%		80 - 120 %	"				"
BSC0230-01RE1 (I-032009)		Water			Sampled: 03/20/09 10:35					
o-Xylene	EPA 8260B	124	----	10.0	ug/l	10x	9C24030	03/24/09 14:56	03/24/09 22:55	
m,p-Xylene	"	366	----	20.0	"	"	"	"	"	
Total Xylenes	"	490	----	30.0	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			93.6%		80 - 120 %	1x				"
Toluene-d8			98.4%		80 - 120 %	"				"
4-BFB			93.9%		80 - 120 %	"				"
BSC0230-02 (M-032009)		Water			Sampled: 03/20/09 10:40					
Benzene	EPA 8260B	1.06	----	0.500	ug/l	1x	9C23039	03/23/09 15:45	03/23/09 22:19	
Ethylbenzene	"	0.770	----	0.500	"	"	"	"	"	
Toluene	"	0.990	----	0.500	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			87.6%		80 - 120 %	"				"
Toluene-d8			95.9%		80 - 120 %	"				"
4-BFB			101%		80 - 120 %	"				"
BSC0230-02RE1 (M-032009)		Water			Sampled: 03/20/09 10:40					
o-Xylene	EPA 8260B	1.19	----	1.00	ug/l	1x	9C24030	03/24/09 14:56	03/24/09 21:00	
m,p-Xylene	"	4.19	----	2.00	"	"	"	"	"	
Total Xylenes	"	5.38	----	3.00	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			102%		80 - 120 %	"				"
Toluene-d8			99.2%		80 - 120 %	"				"
4-BFB			96.2%		80 - 120 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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	Project Number:	Westlake & Mercer Cleanup Project	04/01/09 09:35
	Project Manager:	Melanie Young	

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0230-03 (EO1-032009)		Water				Sampled: 03/20/09 10:40				
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9C23039	03/23/09 15:45	03/23/09 22:48	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	"
Toluene	"	ND	----	0.500	"	"	"	"	"	"
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>90.8%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>
	<i>Toluene-d8</i>			<i>98.8%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>
	<i>4-BFB</i>			<i>102%</i>		<i>80 - 120 %</i>	<i>"</i>			<i>"</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C24004 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C24004-BLK1)

Extracted: 03/24/09 07:12

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	03/24/09 08:27	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>03/24/09 08:27</i>	

LCS (9C24004-BS1)

Extracted: 03/24/09 07:12

Gasoline Range Hydrocarbons	NWTPH-Gx	1180	---	50.0	ug/l	1x	--	1000	118%	(80-120)	--	--	03/24/09 08:59	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 109%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>03/24/09 08:59</i>	

Duplicate (9C24004-DUP1)

QC Source: BSC0230-02

Extracted: 03/24/09 07:12

Gasoline Range Hydrocarbons	NWTPH-Gx	84.8	---	50.0	ug/l	1x	95.2	--	--	--	11.6% (25)	--	03/24/09 11:39	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>03/24/09 11:39</i>	

Matrix Spike (9C24004-MS1)

QC Source: BSC0230-04

Extracted: 03/24/09 07:12

Gasoline Range Hydrocarbons	NWTPH-Gx	1290	---	50.0	ug/l	1x	ND	1000	129%	(70-135)	--	--	03/24/09 15:55	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 110%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>03/24/09 15:55</i>	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: Westlake & Mercer Cleanup Project Project Manager: Melanie Young	Report Created: 04/01/09 09:35
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C24007 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9C24007-BLK1)													Extracted: 03/24/09 08:33		
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	03/25/09 15:24		
Lube Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 82.8%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>03/25/09 15:24</i>			
<i>Octacosane</i>		<i>100%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			
LCS (9C24007-BS1)													Extracted: 03/24/09 08:33		
Diesel Range Hydrocarbons	NWTPH-Dx	1.81	---	0.250	mg/l	1x	--	2.00	90.4%	(65-120)	--	--	03/25/09 15:46		
Lube Oil Range Hydrocarbons	"	1.89	---	0.500	"	"	--	"	94.3%	(70-120)	--	--	"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 75.2%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>03/25/09 15:46</i>			
<i>Octacosane</i>		<i>94.9%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			
LCS Dup (9C24007-BSD1)													Extracted: 03/24/09 08:33		MNR1
Diesel Range Hydrocarbons	NWTPH-Dx	1.84	---	0.250	mg/l	1x	--	2.00	91.8%	(65-120)	1.55%	(25)	03/25/09 16:08		
Lube Oil Range Hydrocarbons	"	1.87	---	0.500	"	"	--	"	93.5%	(70-120)	0.849%	(40)	"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 75.5%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>03/25/09 16:08</i>			
<i>Octacosane</i>		<i>88.9%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			

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Curtis D. Armstrong For Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25021 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C25021-BLK1)								Extracted: 03/25/09 11:50						
Zinc	EPA 6020	ND	---	0.0100	mg/l	1x	--	--	--	--	--	--	03/26/09 13:51	
LCS (9C25021-BS1)								Extracted: 03/25/09 11:50						
Zinc	EPA 6020	0.0796	---	0.0100	mg/l	1x	--	0.0800	99.6%	(80-120)	--	--	03/26/09 13:58	
Duplicate (9C25021-DUP1)				QC Source: BSC0248-01				Extracted: 03/25/09 11:50						
Zinc	EPA 6020	0.0160	---	0.0100	mg/l	1x	0.0142	--	--	--	12.3% (20)	--	03/26/09 14:23	
Matrix Spike (9C25021-MS1)				QC Source: BSC0248-01				Extracted: 03/25/09 11:50						
Zinc	EPA 6020	0.0980	---	0.0100	mg/l	1x	0.0142	0.0800	105%	(75-125)	--	--	03/26/09 14:11	
Post Spike (9C25021-PS1)				QC Source: BSC0248-01				Extracted: 03/25/09 11:50						
Zinc	EPA 6020	0.118	---		ug/ml	1x	0.0142	0.100	104%	(80-120)	--	--	03/26/09 14:04	

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C23039 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes			
Blank (9C23039-BLK1)													Extracted: 03/23/09 12:45				
Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	03/23/09 16:32				
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"				
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"				
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"				
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery:</i>	<i>92.2%</i>	<i>Limits: 80-120%</i>	<i>"</i>	<i>03/23/09 16:32</i>
<i>Toluene-d8</i>													<i>98.6%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>	
<i>4-BFB</i>													<i>99.8%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>	
LCS (9C23039-BS1)													Extracted: 03/23/09 12:45				
Benzene	EPA 8260B	40.7	---	0.500	ug/l	1x	--	40.0	102%	(80-120)	--	--	03/23/09 15:28				
Ethylbenzene	"	40.7	---	0.500	"	"	--	"	102%	(75-125)	--	--	"				
Toluene	"	39.0	---	0.500	"	"	--	"	97.5%	"	--	--	"				
Total Xylenes	"	121	---	3.00	"	"	--	120	101%	"	--	--	"				
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery:</i>	<i>92.6%</i>	<i>Limits: 80-120%</i>	<i>"</i>	<i>03/23/09 15:28</i>
<i>Toluene-d8</i>													<i>95.0%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>	
<i>4-BFB</i>													<i>99.1%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>	
LCS Dup (9C23039-BSD1)													Extracted: 03/23/09 12:45				
Benzene	EPA 8260B	39.6	---	0.500	ug/l	1x	--	40.0	99.0%	(80-120)	2.74% (20)		03/23/09 15:57				
Ethylbenzene	"	40.7	---	0.500	"	"	--	"	102%	(75-125)	0.197%	"	"				
Toluene	"	38.6	---	0.500	"	"	--	"	96.4%	"	1.06%	"	"				
Total Xylenes	"	119	---	3.00	"	"	--	120	99.6%	"	1.12%	"	"				
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery:</i>	<i>90.2%</i>	<i>Limits: 80-120%</i>	<i>"</i>	<i>03/23/09 15:57</i>
<i>Toluene-d8</i>													<i>95.4%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>	
<i>4-BFB</i>													<i>99.9%</i>	<i>80-120%</i>	<i>"</i>	<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C24030 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C24030-BLK1)

Extracted: 03/24/09 14:56

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	03/24/09 19:34	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>94.6%</i>		<i>Limits: 80-120%</i>	<i>"</i>						<i>03/24/09 19:34</i>	
<i>Toluene-d8</i>				<i>99.4%</i>		<i>80-120%</i>	<i>"</i>						<i>"</i>	
<i>4-BFB</i>				<i>102%</i>		<i>80-120%</i>	<i>"</i>						<i>"</i>	

LCS (9C24030-BS1)

Extracted: 03/24/09 14:56

Benzene	EPA 8260B	40.4	---	0.500	ug/l	1x	--	40.0	101%	(80-120)	--	--	03/24/09 16:36	
Ethylbenzene	"	41.2	---	0.500	"	"	--	"	103%	(75-125)	--	--	"	
Toluene	"	39.9	---	0.500	"	"	--	"	99.8%	"	--	--	"	
Total Xylenes	"	121	---	3.00	"	"	--	120	101%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>92.7%</i>		<i>Limits: 80-120%</i>	<i>"</i>						<i>03/24/09 16:36</i>	
<i>Toluene-d8</i>				<i>95.8%</i>		<i>80-120%</i>	<i>"</i>						<i>"</i>	
<i>4-BFB</i>				<i>99.0%</i>		<i>80-120%</i>	<i>"</i>						<i>"</i>	

Matrix Spike (9C24030-MS1)

QC Source: BSC0204-01

Extracted: 03/24/09 14:56

Benzene	EPA 8260B	37.6	---	0.500	ug/l	1x	ND	40.0	93.9%	(75-130)	--	--	03/24/09 17:34	
Ethylbenzene	"	38.1	---	0.500	"	"	ND	"	95.3%	(75-135)	--	--	"	
Toluene	"	37.2	---	0.500	"	"	ND	"	93.0%	(75-125)	--	--	"	
Total Xylenes	"	115	---	3.00	"	"	ND	120	95.7%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>90.2%</i>		<i>Limits: 80-120%</i>	<i>"</i>						<i>03/24/09 17:34</i>	
<i>Toluene-d8</i>				<i>95.6%</i>		<i>80-120%</i>	<i>"</i>						<i>"</i>	
<i>4-BFB</i>				<i>101%</i>		<i>80-120%</i>	<i>"</i>						<i>"</i>	

Matrix Spike Dup (9C24030-MSD1)

QC Source: BSC0204-01

Extracted: 03/24/09 14:56

Benzene	EPA 8260B	36.5	---	0.500	ug/l	1x	ND	40.0	91.2%	(75-130)	2.89%	(25)	03/24/09 18:03	
Ethylbenzene	"	37.2	---	0.500	"	"	ND	"	92.9%	(75-135)	2.55%	(30)	"	
Toluene	"	35.1	---	0.500	"	"	ND	"	87.8%	(75-125)	5.75%	"	"	
Total Xylenes	"	109	---	3.00	"	"	ND	120	90.8%	"	5.23%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>88.6%</i>		<i>Limits: 80-120%</i>	<i>"</i>						<i>03/24/09 18:03</i>	
<i>Toluene-d8</i>				<i>94.2%</i>		<i>80-120%</i>	<i>"</i>						<i>"</i>	
<i>4-BFB</i>				<i>101%</i>		<i>80-120%</i>	<i>"</i>						<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: Westlake & Mercer Cleanup Project

Project Manager: Melanie Young

Report Created:

04/01/09 09:35

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 6020	Water	X	X
EPA 8260B	Water	X	X
NWTPH-Dx	Water		X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: Westlake & Mercer Cleanup Project

Project Manager: Melanie Young

Report Created:

04/01/09 09:35

Notes and Definitions

Report Specific Notes:

- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Q1 - Does not match typical pattern
- Q3 - The chromatographic pattern is not consistent with diesel fuel.
- Q7 - The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **PSCO230**

CLIENT: WAS CORP		INVOICE TO: WRS	
REPORT TO: MELANIE YOUNG - WRS		P.O. NUMBER: 3375938.0500	
ADDRESS: 1501 4th Ave, Ste 1100 Seattle, WA 98101		PRESERVATIVE	
PHONE:	FAX:	REQUESTED ANALYSES	
PROJECT NAME: WMCQ	PROJECT NUMBER:	OTHER Specify:	
SAMPLED BY: MAM/JB	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)
1. I-032009		3/20/09 1035	W
2. M-032009		" " 1040	7
3. E01-032009		" " 1040	8
4. E02-032009		" " 1050	4
5. E03-032009		" " 1100	4
6.			
7.			
8.			
9.			
10.			

TURNAROUND REQUEST
 in Business Days *
 Organic & Inorganic Analyses
 Petroleum Hydrocarbon Analyses
 STD.

7 5 4 3 2 1 <1
 5 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/O ID
W	7	MRM Sample	01
	7	↓	02
	8	JB Sample	03
	4	↓	04
↓	4	↓	05

RELEASED BY: **Matthew McKeebin** FIRM: **WRS** DATE: **3/20/09** TIME: **1430**
 PRINT NAME: **MATTHEW MCKEEBIN** FIRM: **WRS** DATE: **3/20/09** TIME: **1430**
 RECEIVED BY: **Tom Blankinship** FIRM: **TA-S** DATE: **3/20/09** TIME: **1430**
 PRINT NAME: **Blankinship** FIRM: **TA-S** DATE: **3/20/09** TIME: **1430**

ADDITIONAL REMARKS: **@lab1650**

TEMP: **5.2** w/o
 PAGE 1 OF 1
 TAL-1000(0408)

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: 341

Date: 3/20/

Date: 3/23/09

Date: 3/23

Work Order No. BSC 0230

Time: 1650

Time: 0857

Time: 1630

Client: _____

Initials: TR

Initials: TR

Initials: TR

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler _____ Ship Container _____ Sign By _____
 Box _____ On Bottles _____ Date _____
 None/Other _____ None

Bubble Bags _____ Styrofoam _____
 Foam Packs _____
 None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Placed in freezer #46: _____
Y or N or NA _____
Initial/date/time _____

____ Fed Ex _____ Client _____
____ UPS TA Courier _____
____ DHL _____ Mid Valley _____
____ Senvoy _____ TDP _____
____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 5,2 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N _____ Metals Preserved? Y or N or NA _____
Provided by TA? Y or N _____ Client QAPP Preserved? Y or N or NA _____
Correct Type? Y or N _____ Adequate Volume? Y or N _____
(for tests requested)
#Containers match COC? Y or N _____ Water VOAs: Headspace? Y or N or NA _____
IDs/time/date match COC? Y or N _____ Comments: _____
Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____
Has client been contacted regarding non-conformances? _____

Y or N _____
Y or N If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

March 24, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 03/23/09 17:10.
The following list is a summary of the Work Orders contained in this report, generated on 03/24/09
17:41.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0232	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area 2- K9-14	BSC0232-01	Soil	03/23/09 08:20	03/23/09 17:10
Area 2- H10-14	BSC0232-02	Soil	03/23/09 08:25	03/23/09 17:10
Area 2- J10-14	BSC0232-03	Soil	03/23/09 10:05	03/23/09 17:10
Area 2- I10-14	BSC0232-04	Soil	03/23/09 12:30	03/23/09 17:10
Area 2- G10-14	BSC0232-05	Soil	03/23/09 13:20	03/23/09 17:10
Area 2- I6-10	BSC0232-06	Soil	03/23/09 14:00	03/23/09 17:10

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:41

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0232-01 (Area 2- K9-14)		Soil		Sampled: 03/23/09 08:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	132	----	14.2	mg/kg dry	1x	9C23011	03/23/09 15:00	03/23/09 21:52	
Surrogate(s): 4-BFB (FID)			137%		80 - 140 %	"				"
BSC0232-02 (Area 2- H10-14)		Soil		Sampled: 03/23/09 08:25						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	21.8	mg/kg dry	1x	9C23011	03/23/09 15:00	03/23/09 22:24	
Surrogate(s): 4-BFB (FID)			130%		80 - 140 %	"				"
BSC0232-03 (Area 2- J10-14)		Soil		Sampled: 03/23/09 10:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	40.9	mg/kg dry	1x	9C23011	03/23/09 15:00	03/23/09 22:56	
Surrogate(s): 4-BFB (FID)			140%		80 - 140 %	"				"
BSC0232-04 (Area 2- I10-14)		Soil		Sampled: 03/23/09 12:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	111	----	58.0	mg/kg dry	1x	9C23011	03/23/09 15:00	03/23/09 23:28	
Surrogate(s): 4-BFB (FID)			145%		80 - 140 %	"				ZX
BSC0232-05 (Area 2- G10-14)		Soil		Sampled: 03/23/09 13:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	181	----	13.3	mg/kg dry	1x	9C23011	03/23/09 15:00	03/24/09 00:00	
Surrogate(s): 4-BFB (FID)			153%		80 - 140 %	"				ZX
BSC0232-06 (Area 2- I6-10)		Soil		Sampled: 03/23/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	21.1	mg/kg dry	1x	9C23011	03/23/09 15:00	03/24/09 00:32	
Surrogate(s): 4-BFB (FID)			135%		80 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:41

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0232-01 (Area 2- K9-14)		Soil		Sampled: 03/23/09 08:20						
Lube Oil	NWTPH-Dx	ND	----	37.6	mg/kg dry	1x	9C23055	03/23/09 17:36	03/23/09 23:01	
Kerosene	"	ND	----	15.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	30.1	----	15.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			91.6%		60 - 135 %	"			"	
<i>Octacosane</i>			119%		75 - 125 %	"			"	
BSC0232-02 (Area 2- H10-14)		Soil		Sampled: 03/23/09 08:25						
Lube Oil	NWTPH-Dx	61.0	----	48.2	mg/kg dry	1x	9C23055	03/23/09 17:36	03/23/09 23:23	Q13
Kerosene	"	ND	----	19.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	19.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.5%		60 - 135 %	"			"	
<i>Octacosane</i>			114%		75 - 125 %	"			"	
BSC0232-03 (Area 2- J10-14)		Soil		Sampled: 03/23/09 10:05						
Lube Oil	NWTPH-Dx	ND	----	81.0	mg/kg dry	1x	9C23055	03/23/09 17:36	03/23/09 23:45	
Kerosene	"	ND	----	32.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	32.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.6%		60 - 135 %	"			"	
<i>Octacosane</i>			113%		75 - 125 %	"			"	
BSC0232-04 (Area 2- I10-14)		Soil		Sampled: 03/23/09 12:30						
Lube Oil	NWTPH-Dx	ND	----	107	mg/kg dry	1x	9C23055	03/23/09 17:36	03/24/09 00:07	
Kerosene	"	ND	----	42.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	42.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			95.8%		60 - 135 %	"			"	
<i>Octacosane</i>			119%		75 - 125 %	"			"	
BSC0232-05 (Area 2- G10-14)		Soil		Sampled: 03/23/09 13:20						
Lube Oil	NWTPH-Dx	40.8	----	38.5	mg/kg dry	1x	9C23055	03/23/09 17:36	03/24/09 00:28	
Kerosene	"	ND	----	15.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	22.1	----	15.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			83.5%		60 - 135 %	"			"	
<i>Octacosane</i>			114%		75 - 125 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:41

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0232-06 (Area 2- 16-10)		Soil		Sampled: 03/23/09 14:00						
Lube Oil	NWTPH-Dx	131	----	51.3	mg/kg dry	1x	9C23055	03/23/09 17:36	03/24/09 00:50	Q13
Kerosene	"	ND	----	20.5	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	20.5	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				<i>96.0%</i>	<i>60 - 135 %</i>	<i>"</i>				<i>"</i>
<i>Octacosane</i>				<i>115%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:41
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0232-01RE1 (Area 2- K9-14)		Soil		Sampled: 03/23/09 08:20						
Lead	EPA 6020	386	----	3.69	mg/kg dry	5x	9C23060	03/23/09 22:18	03/24/09 09:58	
BSC0232-02 (Area 2- H10-14)		Soil		Sampled: 03/23/09 08:25						
Lead	EPA 6020	4.25	----	0.980	mg/kg dry	1x	9C23060	03/23/09 22:18	03/24/09 08:46	
BSC0232-03 (Area 2- J10-14)		Soil		Sampled: 03/23/09 10:05						
Lead	EPA 6020	38.3	----	1.63	mg/kg dry	1x	9C23060	03/23/09 22:18	03/24/09 09:10	
BSC0232-04 (Area 2- I10-14)		Soil		Sampled: 03/23/09 12:30						
Lead	EPA 6020	76.7	----	2.22	mg/kg dry	1x	9C23060	03/23/09 22:18	03/24/09 09:16	
BSC0232-05 (Area 2- G10-14)		Soil		Sampled: 03/23/09 13:20						
Lead	EPA 6020	88.0	----	0.800	mg/kg dry	1x	9C23060	03/23/09 22:18	03/24/09 09:22	
BSC0232-06 (Area 2- I6-10)		Soil		Sampled: 03/23/09 14:00						
Lead	EPA 6020	2.03	----	1.07	mg/kg dry	1x	9C23060	03/23/09 22:18	03/24/09 09:34	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:41
--	---	-----------------------------------

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSC0232-01 (Area 2- K9-14)		Soil		Sampled: 03/23/09 08:20							
Benzene	EPA 8260B	0.00539	----	0.00199	mg/kg dry	1x	9C23050	03/23/09 18:45	03/23/09 21:51		
Methyl tert-butyl ether	"	ND	----	0.00133	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			103%		70 - 140 %	"				"	
<i>Toluene-d8</i>			107%		70 - 130 %	"				"	
<i>4-BFB</i>			106%		70 - 130 %	"				"	
BSC0232-02RE1 (Area 2- H10-14)		Soil		Sampled: 03/23/09 08:25							12
Benzene	EPA 8260B	ND	----	0.00377	mg/kg dry	1x	9C23050	03/23/09 18:45	03/23/09 19:44		
Methyl tert-butyl ether	"	0.0123	----	0.00251	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			109%		70 - 140 %	"				"	
<i>Toluene-d8</i>			102%		70 - 130 %	"				"	
<i>4-BFB</i>			108%		70 - 130 %	"				"	
BSC0232-03 (Area 2- J10-14)		Soil		Sampled: 03/23/09 10:05							
Benzene	EPA 8260B	ND	----	0.00767	mg/kg dry	1x	9C23050	03/23/09 18:45	03/23/09 20:09		
Methyl tert-butyl ether	"	0.0132	----	0.00511	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			98.3%		70 - 140 %	"				"	
<i>Toluene-d8</i>			106%		70 - 130 %	"				"	
<i>4-BFB</i>			104%		70 - 130 %	"				"	
BSC0232-04 (Area 2- I10-14)		Soil		Sampled: 03/23/09 12:30							
Benzene	EPA 8260B	0.0642	----	0.00793	mg/kg dry	1x	9C23050	03/23/09 18:45	03/23/09 22:17		
Methyl tert-butyl ether	"	ND	----	0.00529	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			103%		70 - 140 %	"				"	
<i>Toluene-d8</i>			113%		70 - 130 %	"				"	
<i>4-BFB</i>			111%		70 - 130 %	"				"	
BSC0232-05 (Area 2- G10-14)		Soil		Sampled: 03/23/09 13:20							
Benzene	EPA 8260B	0.0317	----	0.00314	mg/kg dry	1x	9C23050	03/23/09 18:45	03/23/09 22:42		
Methyl tert-butyl ether	"	ND	----	0.00210	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			102%		70 - 140 %	"				"	
<i>Toluene-d8</i>			120%		70 - 130 %	"				"	
<i>4-BFB</i>			117%		70 - 130 %	"				"	

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Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0232-01 (Area 2- K9-14)		Soil			Sampled: 03/23/09 08:20					
Naphthalene	EPA 8260B	ND	----	5.69	mg/kg dry	1x	9C23018	03/23/09 17:00	03/23/09 21:53	
Ethylbenzene	"	0.919	----	0.285	"	"	"	"	"	
Toluene	"	ND	----	0.285	"	"	"	"	"	
o-Xylene	"	0.561	----	0.285	"	"	"	"	"	
m,p-Xylene	"	2.16	----	0.569	"	"	"	"	"	
Total Xylenes	"	2.72	----	0.854	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>105%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>97.1%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>98.5%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

BSC0232-02 (Area 2- H10-14)		Soil			Sampled: 03/23/09 08:25					
Naphthalene	EPA 8260B	ND	----	8.73	mg/kg dry	1x	9C23018	03/23/09 17:00	03/23/09 22:20	
Ethylbenzene	"	ND	----	0.437	"	"	"	"	"	
Toluene	"	ND	----	0.437	"	"	"	"	"	
o-Xylene	"	ND	----	0.437	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.873	"	"	"	"	"	
Total Xylenes	"	ND	----	1.31	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>105%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>96.4%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>100%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

BSC0232-03 (Area 2- J10-14)		Soil			Sampled: 03/23/09 10:05					
Naphthalene	EPA 8260B	ND	----	16.4	mg/kg dry	1x	9C23018	03/23/09 17:00	03/23/09 22:46	
Ethylbenzene	"	ND	----	0.818	"	"	"	"	"	
Toluene	"	ND	----	0.818	"	"	"	"	"	
o-Xylene	"	ND	----	0.818	"	"	"	"	"	
m,p-Xylene	"	ND	----	1.64	"	"	"	"	"	
Total Xylenes	"	ND	----	2.46	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>105%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>94.9%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>97.9%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

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Kate Haney, Project Manager

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:41

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0232-04 (Area 2- I10-14)		Soil		Sampled: 03/23/09 12:30						
Naphthalene	EPA 8260B	ND	----	23.2	mg/kg dry	1x	9C23018	03/23/09 17:00	03/23/09 23:13	
Ethylbenzene	"	ND	----	1.16	"	"	"	"	"	"
Toluene	"	ND	----	1.16	"	"	"	"	"	"
o-Xylene	"	ND	----	1.16	"	"	"	"	"	"
m,p-Xylene	"	ND	----	2.32	"	"	"	"	"	"
Total Xylenes	"	ND	----	3.48	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>103%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>94.6%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>97.1%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

BSC0232-05 (Area 2- G10-14)		Soil		Sampled: 03/23/09 13:20						
Naphthalene	EPA 8260B	ND	----	5.31	mg/kg dry	1x	9C23018	03/23/09 17:00	03/23/09 23:40	
Ethylbenzene	"	2.70	----	0.266	"	"	"	"	"	"
Toluene	"	0.669	----	0.266	"	"	"	"	"	"
o-Xylene	"	1.07	----	0.266	"	"	"	"	"	"
m,p-Xylene	"	3.86	----	0.531	"	"	"	"	"	"
Total Xylenes	"	4.93	----	0.797	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>107%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>92.9%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>98.2%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

BSC0232-06 (Area 2- I6-10)		Soil		Sampled: 03/23/09 14:00						
Naphthalene	EPA 8260B	ND	----	8.45	mg/kg dry	1x	9C23018	03/23/09 17:00	03/24/09 00:07	
Ethylbenzene	"	ND	----	0.423	"	"	"	"	"	"
Toluene	"	ND	----	0.423	"	"	"	"	"	"
o-Xylene	"	ND	----	0.423	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.845	"	"	"	"	"	"
Total Xylenes	"	ND	----	1.27	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>108%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>94.6%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>97.0%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0232-01 (Area 2- K9-14)		Soil			Sampled: 03/23/09 08:20					
Dry Weight	BSOPSP003R0 8	66.4	----	1.00	%	1x	9C23047	03/23/09 15:06	03/24/09 00:00	
BSC0232-02 (Area 2- H10-14)		Soil			Sampled: 03/23/09 08:25					
Dry Weight	BSOPSP003R0 8	51.6	----	1.00	%	1x	9C23047	03/23/09 15:06	03/24/09 00:00	
BSC0232-03 (Area 2- J10-14)		Soil			Sampled: 03/23/09 10:05					
Dry Weight	BSOPSP003R0 8	30.4	----	1.00	%	1x	9C23047	03/23/09 15:06	03/24/09 00:00	
BSC0232-04 (Area 2- I10-14)		Soil			Sampled: 03/23/09 12:30					
Dry Weight	BSOPSP003R0 8	23.0	----	1.00	%	1x	9C23047	03/23/09 15:06	03/24/09 00:00	
BSC0232-05 (Area 2- G10-14)		Soil			Sampled: 03/23/09 13:20					
Dry Weight	BSOPSP003R0 8	63.8	----	1.00	%	1x	9C23047	03/23/09 15:06	03/24/09 00:00	
BSC0232-06 (Area 2- I6-10)		Soil			Sampled: 03/23/09 14:00					
Dry Weight	BSOPSP003R0 8	48.2	----	1.00	%	1x	9C23047	03/23/09 15:06	03/24/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C23011 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C23011-BLK1)										Extracted: 03/23/09 15:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/23/09 20:16	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>		<i>Limits: 80-140%</i>	<i>"</i>								<i>03/23/09 20:16</i>	
LCS (9C23011-BS1)										Extracted: 03/23/09 15:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	58.0	---	5.00	mg/kg wet	1x	--	50.0	116%	(80-120)	--	--	03/23/09 20:48	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 108%</i>		<i>Limits: 80-140%</i>	<i>"</i>								<i>03/23/09 20:48</i>	
Duplicate (9C23011-DUP1)										QC Source: BSC0215-01		Extracted: 03/23/09 15:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	9.11	mg/kg dry	1x	ND	--	--	--	NR (40)		03/24/09 01:04	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 115%</i>		<i>Limits: 80-140%</i>	<i>"</i>								<i>03/24/09 01:04</i>	
Matrix Spike (9C23011-MS1)										QC Source: BSC0215-01		Extracted: 03/23/09 15:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	106	---	9.11	mg/kg dry	1x	ND	73.2	145%	(75-130)	--	--	03/24/09 03:11	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 136%</i>		<i>Limits: 80-140%</i>	<i>"</i>								<i>03/24/09 03:11</i>	

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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C23055 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C23055-BLK1)

Extracted: 03/23/09 17:36

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/23/09 21:36	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 96.1%</i>		<i>Limits: 60-135%</i>		<i>"</i>						<i>03/23/09 21:36</i>		
<i>Octacosane</i>		<i>114%</i>		<i>75-125%</i>		<i>"</i>						<i>"</i>		

LCS (9C23055-BS1)

Extracted: 03/23/09 17:36

Lube Oil	NWTPH-Dx	76.0	---	25.0	mg/kg wet	1x	--	66.7	114%	(63-125)	--	--	03/23/09 21:57	
Diesel Range Hydrocarbons	"	77.0	---	10.0	"	"	--	"	116%	(75-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 93.5%</i>		<i>Limits: 60-135%</i>		<i>"</i>						<i>03/23/09 21:57</i>		
<i>Octacosane</i>		<i>110%</i>		<i>75-125%</i>		<i>"</i>						<i>"</i>		

Duplicate (9C23055-DUP1)

QC Source: BSC0232-06

Extracted: 03/23/09 17:36

Lube Oil	NWTPH-Dx	ND	---	51.3	mg/kg dry	1x	131	--	--	--	113% (40)	--	03/23/09 22:19	R4
Kerosene	"	ND	---	20.5	"	"	ND	--	--	--	NR	"	"	
Diesel Range Hydrocarbons	"	ND	---	20.5	"	"	ND	--	--	--	73.7%	"	"	R4
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 93.2%</i>		<i>Limits: 60-135%</i>		<i>"</i>						<i>03/23/09 22:19</i>		
<i>Octacosane</i>		<i>116%</i>		<i>75-125%</i>		<i>"</i>						<i>"</i>		

Matrix Spike (9C23055-MS1)

QC Source: BSC0232-06

Extracted: 03/23/09 17:36

Lube Oil	NWTPH-Dx	203	---	51.7	mg/kg dry	1x	131	138	52.0%	(26-150)	--	--	03/23/09 22:40	
Diesel Range Hydrocarbons	"	164	---	20.7	"	"	14.8	"	108%	(40-145)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 83.9%</i>		<i>Limits: 60-135%</i>		<i>"</i>						<i>03/23/09 22:40</i>		
<i>Octacosane</i>		<i>110%</i>		<i>75-125%</i>		<i>"</i>						<i>"</i>		

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Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C23060 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C23060-BLK1)								Extracted: 03/23/09 22:18						
Lead	EPA 6020	ND	---	0.521	mg/kg wet	1x	--	--	--	--	--	--	03/24/09 08:11	
LCS (9C23060-BS1)								Extracted: 03/23/09 22:18						
Lead	EPA 6020	37.9	---	0.500	mg/kg wet	1x	--	40.0	94.7%	(80-120)	--	--	03/24/09 08:17	
Duplicate (9C23060-DUP2)				QC Source: BSC0232-01RE1				Extracted: 03/23/09 22:18						
Lead	EPA 6020	414	---	3.58	mg/kg dry	5x	386	--	--	--	7.10% (20)	--	03/24/09 09:52	
Matrix Spike (9C23060-MS2)				QC Source: BSC0232-01RE1				Extracted: 03/23/09 22:18						
Lead	EPA 6020	287	---	3.69	mg/kg dry	5x	386	59.0	-168%	(75-125)	--	--	03/24/09 09:46	MHA
Post Spike (9C23060-PS2)				QC Source: BSC0232-01RE1				Extracted: 03/23/09 22:18						
Lead	EPA 6020	0.612	---		ug/ml	5x	0.523	0.100	88.6%	(80-120)	--	--	03/24/09 09:40	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C23050 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C23050-BLK1)													Extracted: 03/23/09 11:45	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	03/23/09 18:53	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>03/23/09 18:53</i>	
<i>Toluene-d8</i>			<i>96.6%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>95.9%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9C23050-BS1)													Extracted: 03/23/09 11:45	
Benzene	EPA 8260B	0.0529	---	0.00150	mg/kg wet	1x	--	0.0500	106%	(70-125)	--	--	03/23/09 18:02	
1,2-Dibromoethane (EDB)	"	0.0497	---	0.00500	"	"	--	"	99.4%	(70-130)	--	--	"	
1,2-Dichloroethane	"	0.0409	---	0.00125	"	"	--	"	81.8%	"	--	--	"	
Ethylbenzene	"	0.0455	---	0.00400	"	"	--	"	90.9%	(70-125)	--	--	"	
Methyl tert-butyl ether	"	0.0616	---	0.00100	"	"	--	"	123%	(70-130)	--	--	"	
Toluene	"	0.0477	---	0.00150	"	"	--	"	95.5%	(70-125)	--	--	"	
Total Xylenes	"	0.127	---	0.0100	"	"	--	0.150	84.8%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>86.0%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>03/23/09 18:02</i>	
<i>Toluene-d8</i>			<i>106%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>94.6%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9C23050-BSD1)													Extracted: 03/23/09 11:45	
Benzene	EPA 8260B	0.0515	---	0.00150	mg/kg wet	1x	--	0.0500	103%	(70-125)	2.70% (30)		03/23/09 18:28	
1,2-Dibromoethane (EDB)	"	0.0490	---	0.00500	"	"	--	"	98.0%	(70-130)	1.44%	"	"	
1,2-Dichloroethane	"	0.0398	---	0.00125	"	"	--	"	79.5%	"	2.75%	"	"	
Ethylbenzene	"	0.0448	---	0.00400	"	"	--	"	89.5%	(70-125)	1.55%	"	"	
Methyl tert-butyl ether	"	0.0548	---	0.00100	"	"	--	"	110%	(70-130)	11.7%	"	"	
Toluene	"	0.0458	---	0.00150	"	"	--	"	91.5%	(70-125)	4.19%	"	"	
Total Xylenes	"	0.122	---	0.0100	"	"	--	0.150	81.6%	(70-130)	3.76%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>83.2%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>03/23/09 18:28</i>	
<i>Toluene-d8</i>			<i>100%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>100%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/24/09 17:41
--	---	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C23018 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C23018-BLK1)													Extracted: 03/23/09 09:13	
Naphthalene	EPA 8260B	ND	---	2.00	mg/kg wet	1x	--	--	--	--	--	--	03/23/09 18:45	
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Benzene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>97.7%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/23/09 18:45</i>	
<i>Toluene-d8</i>			<i>99.3%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9C23018-BS1)													Extracted: 03/23/09 09:13	
Naphthalene	EPA 8260B	4.66	---	2.00	mg/kg wet	1x	--	4.00	117%	(75-125)	--	--	03/23/09 17:18	
Methyl tert-butyl ether	"	4.17	---	0.0500	"	"	--	"	104%	"	--	--	"	
Benzene	"	3.97	---	0.0200	"	"	--	"	99.4%	"	--	--	"	
Ethylbenzene	"	3.79	---	0.100	"	"	--	"	94.8%	"	--	--	"	
Toluene	"	3.64	---	0.100	"	"	--	"	91.0%	"	--	--	"	
Total Xylenes	"	10.7	---	0.300	"	"	--	12.0	89.0%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/23/09 17:18</i>	
<i>Toluene-d8</i>			<i>94.2%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.8%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9C23018-BSD1)													Extracted: 03/23/09 09:13	
Methyl tert-butyl ether	EPA 8260B	4.16	---	0.0500	mg/kg wet	1x	--	4.00	104%	(75-125)	0.0960% (20)		03/23/09 17:45	
Naphthalene	"	4.53	---	2.00	"	"	--	"	113%	"	2.87%	"	"	
Benzene	"	3.98	---	0.0200	"	"	--	"	99.4%	"	0.0503%	"	"	
Ethylbenzene	"	3.74	---	0.100	"	"	--	"	93.6%	"	1.30%	"	"	
Toluene	"	3.67	---	0.100	"	"	--	"	91.8%	"	0.848%	"	"	
Total Xylenes	"	10.6	---	0.300	"	"	--	12.0	88.2%	"	0.969%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/23/09 17:45</i>	
<i>Toluene-d8</i>			<i>93.2%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.2%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	03/24/09 17:41
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C23047 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C23047-BLK1)										Extracted: 03/23/09 15:06				
Dry Weight	BSOPSP00 3R08	99.6	---	1.00	%	1x	--	--	--	--	--	--	03/24/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:41

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/24/09 17:41

Notes and Definitions

Report Specific Notes:

- I2 - Internal Standard recovery was outside of method limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- Q13 - Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **6800232**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST in Business Days *						
REPORT TO: ADDRESS:		P.O. NUMBER:		<input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1						
PHONE:		FAX:		Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> <1 STD.						
PROJECT NAME: WMCP		PRESERVATIVE		OTHER Specify:						
PROJECT NUMBER:		REQUESTED ANALYSES		* Turnaround Requests less than standard may incur Rush Charges.						
SAMPLED BY: MATTHEW MYKIEBEN										
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	OX	MUTR	GN	BTEX	LEAD	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 A-022-k9-14	3/23/09 0820	X	X	X	X	X	S	5		-01
2 " 11-110-14	" 0825	X	X	X	X	X				-02
3 " 11-110-14	" 1005	X	X	X	X	X				-03
4 " 11-110-14	" 1230	X	X	X	X	X				-04
5 111-110-14	" 1320	X	X	X	X	X				-05
6 111-116-10	" 1400	X	X	X	X	X				-06
7										
8										
9										
10										
RELEASED BY:	DATE: 3-27-09	RECEIVED BY: Curtis Armstrong		DATE:	DATE: 3/27/09					
PRINT NAME: Demetrio Phillips	TIME: 1530	PRINT NAME:		TIME:	TIME: 4:27					
RELEASED BY:	DATE:	RECEIVED BY:		DATE:	DATE:					
PRINT NAME:	TIME:	PRINT NAME:		TIME:	TIME:					
FIRM: 405		FIRM: TALS		FIRM: WCS						
FIRM:		FIRM:		FIRM:						
ADDITIONAL REMARKS:		TEMP: 3.30		PAGE 1 OF 1						

@ Lab 1710

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 03-23-09

Date: 03-23

Date: 03-23

Work Order No. BSC0232

Time: 1710

Time: 1729

Time: 1725

Client: _____

Initials: CA

Initials: CW

Initials: CW

Project: _____

Container Type: _____

COC Seals: _____

Packing Material: _____

Cooler

Ship Container ? Sign By _____

____ Bubble Bags _____ Styrofoam

____ Box

____ On Bottles 032309 Date _____

____ Foam Packs

____ None/Other _____

____ None

None Other plastic baggies

Refrigerant: _____

Received Via: Bill# _____

Gel Ice Pack _____

____ Fed Ex _____ Client

____ Loose Ice _____

____ UPS TA Courier

____ None/Other _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): 3.3 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? _____ °C or NA

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers: _____

ID _____

ID _____

Intact? or N _____

Metals Preserved? Y or N or NA soil

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA

Correct Type? or N _____

Adequate Volume? or N _____

#Containers match COC? or N _____

(for tests requested) Water VOAs: Headspace? Y or N or NA

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

March 25, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 03/24/09 16:20.
The following list is a summary of the Work Orders contained in this report, generated on 03/25/09
16:05.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0245	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/25/09 16:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area2-J5-14	BSC0245-01	Soil	03/24/09 08:00	03/24/09 16:20
Area2-I9-14	BSC0245-02	Soil	03/24/09 08:05	03/24/09 16:20
Area2-H6-14	BSC0245-03	Soil	03/24/09 08:45	03/24/09 16:20
Area2-H7-14	BSC0245-04	Soil	03/24/09 09:15	03/24/09 16:20
Area2-H8-14	BSC0245-05	Soil	03/24/09 09:30	03/24/09 16:20
Area2-G7-14	BSC0245-06	Soil	03/24/09 13:00	03/24/09 16:20
Area2-G8-14	BSC0245-07	Soil	03/24/09 13:10	03/24/09 16:20
Area2-G9-14	BSC0245-08	Soil	03/24/09 13:30	03/24/09 16:20

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/25/09 16:05
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0245-01 (Area2-J5-14)		Soil								Sampled: 03/24/09 08:00
Gasoline Range Hydrocarbons	NWTPH-Gx	520	----	40.9	mg/kg dry	5x	9C24031	03/24/09 17:06	03/25/09 14:46	
<i>Surrogate(s): 4-BFB (FID)</i>			133%		80 - 140 %	1x				"
BSC0245-02 (Area2-I9-14)		Soil								Sampled: 03/24/09 08:05
Gasoline Range Hydrocarbons	NWTPH-Gx	609	----	22.8	mg/kg dry	1x	9C24031	03/24/09 17:06	03/25/09 08:22	
<i>Surrogate(s): 4-BFB (FID)</i>			155%		80 - 140 %	"				" ZX
BSC0245-03 (Area2-H6-14)		Soil								Sampled: 03/24/09 08:45
Gasoline Range Hydrocarbons	NWTPH-Gx	245	----	13.8	mg/kg dry	1x	9C24031	03/24/09 17:06	03/25/09 09:26	
<i>Surrogate(s): 4-BFB (FID)</i>			158%		80 - 140 %	"				" ZX
BSC0245-04 (Area2-H7-14)		Soil								Sampled: 03/24/09 09:15
Gasoline Range Hydrocarbons	NWTPH-Gx	214	----	19.3	mg/kg dry	1x	9C24031	03/24/09 17:06	03/25/09 09:58	
<i>Surrogate(s): 4-BFB (FID)</i>			149%		80 - 140 %	"				" ZX
BSC0245-05 (Area2-H8-14)		Soil								Sampled: 03/24/09 09:30
Gasoline Range Hydrocarbons	NWTPH-Gx	528	----	28.7	mg/kg dry	1x	9C24031	03/24/09 17:06	03/25/09 10:30	
<i>Surrogate(s): 4-BFB (FID)</i>			161%		80 - 140 %	"				" ZX
BSC0245-06 (Area2-G7-14)		Soil								Sampled: 03/24/09 13:00
Gasoline Range Hydrocarbons	NWTPH-Gx	145	----	13.8	mg/kg dry	1x	9C24031	03/24/09 17:06	03/25/09 11:02	M1
<i>Surrogate(s): 4-BFB (FID)</i>			147%		80 - 140 %	"				" ZX
BSC0245-07 (Area2-G8-14)		Soil								Sampled: 03/24/09 13:10
Gasoline Range Hydrocarbons	NWTPH-Gx	553	----	23.0	mg/kg dry	1x	9C24031	03/24/09 17:06	03/25/09 11:34	
<i>Surrogate(s): 4-BFB (FID)</i>			154%		80 - 140 %	"				" ZX
BSC0245-08 (Area2-G9-14)		Soil								Sampled: 03/24/09 13:30
Gasoline Range Hydrocarbons	NWTPH-Gx	895	----	44.6	mg/kg dry	1x	9C24031	03/24/09 17:06	03/25/09 14:14	
<i>Surrogate(s): 4-BFB (FID)</i>			141%		80 - 140 %	"				" ZX

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/25/09 16:05
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0245-01 (Area2-J5-14)		Soil			Sampled: 03/24/09 08:00					
Lube Oil	NWTPH-Dx	110	----	32.9	mg/kg dry	1x	9C24014	03/24/09 14:29	03/25/09 00:53	
Kerosene	"	87.6	----	13.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	70.7	----	13.2	"	"	"	"	"	Q10
Surrogate(s): 2-FBP			94.2%		60 - 135 %	"			"	
Octacosane			112%		75 - 125 %	"			"	
BSC0245-02 (Area2-I9-14)		Soil			Sampled: 03/24/09 08:05					
Lube Oil	NWTPH-Dx	232	----	56.4	mg/kg dry	1x	9C24014	03/24/09 14:29	03/25/09 01:15	
Kerosene	"	92.2	----	22.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	161	----	22.6	"	"	"	"	"	Q10
Surrogate(s): 2-FBP			84.3%		60 - 135 %	"			"	
Octacosane			105%		75 - 125 %	"			"	
BSC0245-03 (Area2-H6-14)		Soil			Sampled: 03/24/09 08:45					
Lube Oil	NWTPH-Dx	312	----	45.7	mg/kg dry	1x	9C24014	03/24/09 14:29	03/25/09 01:37	
Kerosene	"	96.6	----	18.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	183	----	18.3	"	"	"	"	"	Q10
Surrogate(s): 2-FBP			91.3%		60 - 135 %	"			"	
Octacosane			119%		75 - 125 %	"			"	
BSC0245-04 (Area2-H7-14)		Soil			Sampled: 03/24/09 09:15					
Lube Oil	NWTPH-Dx	211	----	43.0	mg/kg dry	1x	9C24014	03/24/09 14:29	03/25/09 01:59	
Kerosene	"	60.9	----	17.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	123	----	17.2	"	"	"	"	"	Q10
Surrogate(s): 2-FBP			94.5%		60 - 135 %	"			"	
Octacosane			111%		75 - 125 %	"			"	
BSC0245-05 (Area2-H8-14)		Soil			Sampled: 03/24/09 09:30					
Lube Oil	NWTPH-Dx	368	----	68.6	mg/kg dry	1x	9C24014	03/24/09 14:29	03/25/09 02:20	
Kerosene	"	101	----	27.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	185	----	27.4	"	"	"	"	"	Q10
Surrogate(s): 2-FBP			86.0%		60 - 135 %	"			"	
Octacosane			108%		75 - 125 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/25/09 16:05
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0245-06 (Area2-G7-14)		Soil			Sampled: 03/24/09 13:00					
Lube Oil	NWTPH-Dx	265	----	45.3	mg/kg dry	1x	9C24014	03/24/09 14:29	03/25/09 02:42	
Kerosene	"	95.9	----	18.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	184	----	18.1	"	"	"	"	"	Q10
Surrogate(s): 2-FBP			91.9%		60 - 135 %	"			"	
Octacosane			108%		75 - 125 %	"			"	
BSC0245-07 (Area2-G8-14)		Soil			Sampled: 03/24/09 13:10					
Lube Oil	NWTPH-Dx	235	----	57.0	mg/kg dry	1x	9C24014	03/24/09 14:29	03/25/09 03:03	
Kerosene	"	85.8	----	22.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	132	----	22.8	"	"	"	"	"	Q10
Surrogate(s): 2-FBP			96.2%		60 - 135 %	"			"	
Octacosane			117%		75 - 125 %	"			"	
BSC0245-08 (Area2-G9-14)		Soil			Sampled: 03/24/09 13:30					
Lube Oil	NWTPH-Dx	537	----	75.7	mg/kg dry	1x	9C24014	03/24/09 14:29	03/25/09 03:26	
Kerosene	"	170	----	30.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	289	----	30.3	"	"	"	"	"	Q10
Surrogate(s): 2-FBP			91.6%		60 - 135 %	"			"	
Octacosane			290%		75 - 125 %	"			"	ZX

TestAmerica Seattle



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/25/09 16:05
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0245-01 (Area2-J5-14)		Soil						Sampled: 03/24/09 08:00		
Lead	EPA 6020	52.3	----	0.547	mg/kg dry	1x	9C25002	03/25/09 05:23	03/25/09 08:20	MI
BSC0245-02 (Area2-I9-14)		Soil						Sampled: 03/24/09 08:05		
Lead	EPA 6020	91.1	----	0.769	mg/kg dry	1x	9C25002	03/25/09 05:23	03/25/09 08:26	
BSC0245-03 (Area2-H6-14)		Soil						Sampled: 03/24/09 08:45		
Lead	EPA 6020	55.5	----	0.594	mg/kg dry	1x	9C25002	03/25/09 05:23	03/25/09 08:50	
BSC0245-04 (Area2-H7-14)		Soil						Sampled: 03/24/09 09:15		
Lead	EPA 6020	96.3	----	0.480	mg/kg dry	1x	9C25002	03/25/09 05:23	03/25/09 08:56	
BSC0245-05 (Area2-H8-14)		Soil						Sampled: 03/24/09 09:30		
Lead	EPA 6020	156	----	0.756	mg/kg dry	1x	9C25002	03/25/09 05:23	03/25/09 09:02	
BSC0245-06 (Area2-G7-14)		Soil						Sampled: 03/24/09 13:00		
Lead	EPA 6020	55.2	----	0.500	mg/kg dry	1x	9C25002	03/25/09 05:23	03/25/09 09:08	
BSC0245-07 (Area2-G8-14)		Soil						Sampled: 03/24/09 13:10		
Lead	EPA 6020	58.4	----	0.644	mg/kg dry	1x	9C25002	03/25/09 05:23	03/25/09 09:14	
BSC0245-08 (Area2-G9-14)		Soil						Sampled: 03/24/09 13:30		
Lead	EPA 6020	85.1	----	0.905	mg/kg dry	1x	9C25002	03/25/09 05:23	03/25/09 09:20	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/25/09 16:05

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0245-01 (Area2-J5-14)		Soil		Sampled: 03/24/09 08:00						
Benzene	EPA 8260B	0.0102	----	0.00194	mg/kg dry	1x	9C24028	03/24/09 19:25	03/25/09 03:42	
Methyl tert-butyl ether	"	ND	----	0.00129	"	"	"	"	"	"
Toluene	"	0.0303	----	0.00194	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>										
			<i>133%</i>	<i>70 - 140 %</i>						<i>"</i>
<i>Toluene-d8</i>										
			<i>103%</i>	<i>70 - 130 %</i>						<i>"</i>
<i>4-BFB</i>										
			<i>128%</i>	<i>70 - 130 %</i>						<i>"</i>
BSC0245-02 (Area2-I9-14)		Soil		Sampled: 03/24/09 08:05						
Benzene	EPA 8260B	0.0772	----	0.00389	mg/kg dry	1x	9C24028	03/24/09 19:25	03/25/09 03:16	
Methyl tert-butyl ether	"	ND	----	0.00259	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>										
			<i>131%</i>	<i>70 - 140 %</i>						<i>"</i>
<i>Toluene-d8</i>										
			<i>110%</i>	<i>70 - 130 %</i>						<i>"</i>
<i>4-BFB</i>										
			<i>125%</i>	<i>70 - 130 %</i>						<i>"</i>
BSC0245-03 (Area2-H6-14)		Soil		Sampled: 03/24/09 08:45						
Benzene	EPA 8260B	0.129	----	0.00255	mg/kg dry	1x	9C24028	03/24/09 19:25	03/25/09 02:51	
Methyl tert-butyl ether	"	ND	----	0.00170	"	"	"	"	"	"
Naphthalene	"	0.308	----	0.0170	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>										
			<i>140%</i>	<i>70 - 140 %</i>						<i>"</i>
<i>Toluene-d8</i>										
			<i>109%</i>	<i>70 - 130 %</i>						<i>"</i>
<i>4-BFB</i>										
			<i>117%</i>	<i>70 - 130 %</i>						<i>"</i>
BSC0245-04 (Area2-H7-14)		Soil		Sampled: 03/24/09 09:15						
Benzene	EPA 8260B	0.0874	----	0.00319	mg/kg dry	1x	9C24028	03/24/09 19:25	03/25/09 02:25	
Methyl tert-butyl ether	"	ND	----	0.00213	"	"	"	"	"	"
Naphthalene	"	0.388	----	0.0213	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>										
			<i>126%</i>	<i>70 - 140 %</i>						<i>"</i>
<i>Toluene-d8</i>										
			<i>110%</i>	<i>70 - 130 %</i>						<i>"</i>
<i>4-BFB</i>										
			<i>119%</i>	<i>70 - 130 %</i>						<i>"</i>

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/25/09 16:05
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSC0245-05 (Area2-H8-14)	Soil			Sampled: 03/24/09 09:30						
Benzene	EPA 8260B	0.157	----	0.00621	mg/kg dry	1x	9C24028	03/24/09 19:25	03/25/09 02:00	
Methyl tert-butyl ether	"	ND	----	0.00414	"	"	"	"	"	
Naphthalene	"	0.394	----	0.0414	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>135%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>			<i>108%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>			<i>105%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

BSC0245-06 (Area2-G7-14)	Soil			Sampled: 03/24/09 13:00						
Benzene	EPA 8260B	0.0938	----	0.00272	mg/kg dry	1x	9C24028	03/24/09 19:25	03/25/09 01:34	
Methyl tert-butyl ether	"	ND	----	0.00182	"	"	"	"	"	
Naphthalene	"	0.278	----	0.0182	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>138%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>			<i>106%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>			<i>112%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

BSC0245-07 (Area2-G8-14)	Soil			Sampled: 03/24/09 13:10						
Benzene	EPA 8260B	0.201	----	0.00345	mg/kg dry	1x	9C24028	03/24/09 19:25	03/25/09 01:09	
Methyl tert-butyl ether	"	ND	----	0.00230	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>134%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>			<i>118%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>			<i>138%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

BSC0245-08 (Area2-G9-14)	Soil			Sampled: 03/24/09 13:30						
Benzene	EPA 8260B	0.297	----	0.00572	mg/kg dry	1x	9C24028	03/24/09 19:25	03/25/09 00:44	
Methyl tert-butyl ether	"	ND	----	0.00381	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>132%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>			<i>116%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>			<i>135%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/25/09 16:05

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSC0245-01 (Area2-J5-14)

Soil

Sampled: 03/24/09 08:00

Ethylbenzene	EPA 8260B	1.36	----	0.163	mg/kg dry	1x	9C24026	03/24/09 19:27	03/24/09 19:45	
Naphthalene	"	ND	----	3.27	"	"	"	"	"	"
o-Xylene	"	3.36	----	0.163	"	"	"	"	"	"
m,p-Xylene	"	8.19	----	0.327	"	"	"	"	"	"
Xylenes (total)	"	11.5	----	0.490	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>111%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>92.4%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>93.8%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

BSC0245-02 (Area2-I9-14)

Soil

Sampled: 03/24/09 08:05

Ethylbenzene	EPA 8260B	4.66	----	0.455	mg/kg dry	1x	9C24026	03/24/09 19:27	03/24/09 20:11	
Naphthalene	"	ND	----	9.11	"	"	"	"	"	"
Toluene	"	3.03	----	0.455	"	"	"	"	"	"
o-Xylene	"	5.84	----	0.455	"	"	"	"	"	"
m,p-Xylene	"	17.7	----	0.911	"	"	"	"	"	"
Xylenes (total)	"	23.6	----	1.37	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>103%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>94.0%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>97.8%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

BSC0245-03 (Area2-H6-14)

Soil

Sampled: 03/24/09 08:45

Ethylbenzene	EPA 8260B	2.10	----	0.275	mg/kg dry	1x	9C24026	03/24/09 19:27	03/24/09 20:38	
Toluene	"	1.15	----	0.275	"	"	"	"	"	"
o-Xylene	"	1.94	----	0.275	"	"	"	"	"	"
m,p-Xylene	"	6.17	----	0.550	"	"	"	"	"	"
Xylenes (total)	"	8.11	----	0.825	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>102%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>95.8%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>101%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 03/25/09 16:05

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0245-04 (Area2-H7-14)		Soil			Sampled: 03/24/09 09:15					
Ethylbenzene	EPA 8260B	1.58	----	0.386	mg/kg dry	1x	9C24026	03/24/09 19:27	03/24/09 21:05	
Toluene	"	0.768	----	0.386	"	"	"	"	"	
o-Xylene	"	1.36	----	0.386	"	"	"	"	"	
m,p-Xylene	"	4.53	----	0.771	"	"	"	"	"	
Xylenes (total)	"	5.89	----	1.16	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>101%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>96.2%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>99.9%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSC0245-05 (Area2-H8-14)		Soil			Sampled: 03/24/09 09:30					
Ethylbenzene	EPA 8260B	3.91	----	0.574	mg/kg dry	1x	9C24026	03/24/09 19:27	03/24/09 21:32	
Toluene	"	2.17	----	0.574	"	"	"	"	"	
o-Xylene	"	4.18	----	0.574	"	"	"	"	"	
m,p-Xylene	"	13.1	----	1.15	"	"	"	"	"	
Xylenes (total)	"	17.3	----	1.72	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>101%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>97.4%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>99.8%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSC0245-06 (Area2-G7-14)		Soil			Sampled: 03/24/09 13:00					
Ethylbenzene	EPA 8260B	1.18	----	0.275	mg/kg dry	1x	9C24026	03/24/09 19:27	03/24/09 21:59	
Toluene	"	0.669	----	0.275	"	"	"	"	"	
o-Xylene	"	1.10	----	0.275	"	"	"	"	"	
m,p-Xylene	"	3.54	----	0.551	"	"	"	"	"	
Xylenes (total)	"	4.64	----	0.826	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>97.0%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>101%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSC0245-07 (Area2-G8-14)		Soil			Sampled: 03/24/09 13:10					
Ethylbenzene	EPA 8260B	3.80	----	0.459	mg/kg dry	1x	9C24026	03/24/09 19:27	03/24/09 22:26	
Naphthalene	"	ND	----	9.18	"	"	"	"	"	
Toluene	"	2.02	----	0.459	"	"	"	"	"	
o-Xylene	"	3.98	----	0.459	"	"	"	"	"	
m,p-Xylene	"	12.5	----	0.918	"	"	"	"	"	
Xylenes (total)	"	16.5	----	1.38	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>102%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>97.9%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/25/09 16:05
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0245-07 (Area2-G8-14)		Soil			Sampled: 03/24/09 13:10					
4-BFB			102%		75 - 125 %	1x			03/24/09 22:26	
BSC0245-08 (Area2-G9-14)		Soil			Sampled: 03/24/09 13:30					
Ethylbenzene	EPA 8260B	5.08	----	0.892	mg/kg dry	1x	9C24026	03/24/09 19:27	03/24/09 22:52	
Naphthalene	"	ND	----	17.8	"	"	"	"	"	"
Toluene	"	4.24	----	0.892	"	"	"	"	"	"
o-Xylene	"	7.00	----	0.892	"	"	"	"	"	"
m,p-Xylene	"	20.1	----	1.78	"	"	"	"	"	"
Xylenes (total)	"	27.1	----	2.68	"	"	"	"	"	"
Surrogate(s):	1,2-DCA-d4		103%		75 - 125 %	"				"
	Toluene-d8		97.2%		75 - 125 %	"				"
	4-BFB		101%		75 - 125 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/25/09 16:05

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0245-01 (Area2-J5-14)		Soil								Sampled: 03/24/09 08:00
Dry Weight	BSOPSP003R0 8	75.5	----	1.00	%	1x	9C24035	03/24/09 16:50	03/25/09 00:00	
BSC0245-02 (Area2-I9-14)		Soil								Sampled: 03/24/09 08:05
Dry Weight	BSOPSP003R0 8	43.6	----	1.00	%	1x	9C24035	03/24/09 16:50	03/25/09 00:00	
BSC0245-03 (Area2-H6-14)		Soil								Sampled: 03/24/09 08:45
Dry Weight	BSOPSP003R0 8	54.3	----	1.00	%	1x	9C24035	03/24/09 16:50	03/25/09 00:00	
BSC0245-04 (Area2-H7-14)		Soil								Sampled: 03/24/09 09:15
Dry Weight	BSOPSP003R0 8	57.9	----	1.00	%	1x	9C24035	03/24/09 16:50	03/25/09 00:00	
BSC0245-05 (Area2-H8-14)		Soil								Sampled: 03/24/09 09:30
Dry Weight	BSOPSP003R0 8	36.3	----	1.00	%	1x	9C24035	03/24/09 16:50	03/25/09 00:00	
BSC0245-06 (Area2-G7-14)		Soil								Sampled: 03/24/09 13:00
Dry Weight	BSOPSP003R0 8	55.2	----	1.00	%	1x	9C24035	03/24/09 16:50	03/25/09 00:00	
BSC0245-07 (Area2-G8-14)		Soil								Sampled: 03/24/09 13:10
Dry Weight	BSOPSP003R0 8	43.6	----	1.00	%	1x	9C24035	03/24/09 16:50	03/25/09 00:00	
BSC0245-08 (Area2-G9-14)		Soil								Sampled: 03/24/09 13:30
Dry Weight	BSOPSP003R0 8	32.7	----	1.00	%	1x	9C24035	03/24/09 16:50	03/25/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C24031 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9C24031-BLK1)										Extracted: 03/24/09 17:06					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/25/09 07:18		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/25/09 07:18</i>		
LCS (9C24031-BS1)										Extracted: 03/24/09 17:06					
Gasoline Range Hydrocarbons	NWTPH-Gx	59.4	---	5.00	mg/kg wet	1x	--	50.0	119%	(80-120)	--	--	03/25/09 07:50		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 109%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/25/09 07:50</i>		
Duplicate (9C24031-DUP1)										QC Source: BSC0245-03			Extracted: 03/24/09 17:06		
Gasoline Range Hydrocarbons	NWTPH-Gx	246	---	13.8	mg/kg dry	1x	245	--	--	--	0.459% (40)		03/25/09 08:54		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 167%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/25/09 08:54</i>	ZX	
Matrix Spike (9C24031-MS1)										QC Source: BSC0245-06			Extracted: 03/24/09 17:06		
Gasoline Range Hydrocarbons	NWTPH-Gx	333	---	13.8	mg/kg dry	1x	145	97.1	194%	(75-130)	--	--	03/25/09 12:06	M1	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 171%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/25/09 12:06</i>	ZX	

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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C24014 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9C24014-BLK1)													Extracted: 03/24/09 14:29			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/24/09 19:09			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.9%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/24/09 19:09</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>112%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
LCS (9C24014-BS1)													Extracted: 03/24/09 14:29			
Lube Oil	NWTPH-Dx	66.4	---	25.0	mg/kg wet	1x	--	66.7	99.6%	(63-125)	--	--	03/24/09 19:30			
Diesel Range Hydrocarbons	"	74.7	---	10.0	"	"	--	"	112%	(75-125)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>97.6%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/24/09 19:30</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>113%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
Duplicate (9C24014-DUP1)													QC Source: BSC0235-01		Extracted: 03/24/09 14:29	
Lube Oil	NWTPH-Dx	ND	---	27.4	mg/kg dry	1x	ND	--	--	--	0.874% (40)		03/24/09 19:51			
Kerosene	"	136	---	10.9	"	"	146	--	--	--	7.27%	"	"			
Diesel Range Hydrocarbons	"	202	---	10.9	"	"	210	--	--	--	3.83%	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.6%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/24/09 19:51</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
Duplicate (9C24014-DUP2)													QC Source: BSC0245-08		Extracted: 03/24/09 14:29	
Lube Oil	NWTPH-Dx	472	---	76.2	mg/kg dry	1x	537	--	--	--	12.7% (40)		03/24/09 20:13			
Kerosene	"	126	---	30.5	"	"	170	--	--	--	29.6%	"	"			
Diesel Range Hydrocarbons	"	223	---	30.5	"	"	289	--	--	--	25.8%	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.5%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/24/09 20:13</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>91.8%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9C24014-MS1)													QC Source: BSC0235-01		Extracted: 03/24/09 14:29	
Lube Oil	NWTPH-Dx	90.4	---	27.2	mg/kg dry	1x	24.2	72.5	91.4%	(26-150)	--	--	03/24/09 20:35			
Diesel Range Hydrocarbons	"	242	---	10.9	"	"	210	"	44.7%	(40-145)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.1%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/24/09 20:35</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25002	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C25002-BLK1)								Extracted: 03/25/09 05:23						
Lead	EPA 6020	ND	---	0.495	mg/kg wet	1x	--	--	--	--	--	--	03/25/09 07:51	
LCS (9C25002-BS1)								Extracted: 03/25/09 05:23						
Lead	EPA 6020	37.1	---	0.485	mg/kg wet	1x	--	38.8	95.5%	(80-120)	--	--	03/25/09 07:57	
Duplicate (9C25002-DUP1)				QC Source: BSC0245-01				Extracted: 03/25/09 05:23						
Lead	EPA 6020	56.5	---	0.547	mg/kg dry	1x	52.3	--	--	--	7.67% (20)	--	03/25/09 08:15	
Matrix Spike (9C25002-MS1)				QC Source: BSC0245-01				Extracted: 03/25/09 05:23						
Lead	EPA 6020	108	---	0.530	mg/kg dry	1x	52.3	42.4	131%	(75-125)	--	--	03/25/09 08:09	M1
Post Spike (9C25002-PS1)				QC Source: BSC0245-01				Extracted: 03/25/09 05:23						
Lead	EPA 6020	0.198	---		ug/ml	1x	0.0957	0.100	102%	(80-120)	--	--	03/25/09 08:03	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C24028 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C24028-BLK1)													Extracted: 03/24/09 19:25	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	03/25/09 00:18	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>132%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>03/25/09 00:18</i>	
<i>Toluene-d8</i>			<i>94.5%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>105%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9C24028-BS1)													Extracted: 03/24/09 19:25	
Benzene	EPA 8260B	0.0484	---	0.00150	mg/kg wet	1x	--	0.0500	96.7%	(70-125)	--	--	03/24/09 23:27	
Ethylbenzene	"	0.0468	---	0.00400	"	"	--	"	93.5%	"	--	--	"	
Methyl tert-butyl ether	"	0.0533	---	0.00100	"	"	--	"	107%	(70-130)	--	--	"	
Naphthalene	"	0.0499	---	0.0100	"	"	--	"	99.7%	"	--	--	"	
Toluene	"	0.0474	---	0.00150	"	"	--	"	94.7%	(70-125)	--	--	"	
Total Xylenes	"	0.136	---	0.0100	"	"	--	0.150	91.0%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>03/24/09 23:27</i>	
<i>Toluene-d8</i>			<i>98.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>103%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9C24028-BSD1)													Extracted: 03/24/09 19:25	
Benzene	EPA 8260B	0.0484	---	0.00150	mg/kg wet	1x	--	0.0500	96.9%	(70-125)	0.165% (30)		03/24/09 23:53	
Ethylbenzene	"	0.0472	---	0.00400	"	"	--	"	94.4%	"	0.958%	"	"	
Methyl tert-butyl ether	"	0.0516	---	0.00100	"	"	--	"	103%	(70-130)	3.11%	"	"	
Naphthalene	"	0.0495	---	0.0100	"	"	--	"	99.0%	"	0.745%	"	"	
Toluene	"	0.0484	---	0.00150	"	"	--	"	96.8%	(70-125)	2.19%	"	"	
Total Xylenes	"	0.138	---	0.0100	"	"	--	0.150	92.1%	(70-130)	1.22%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>03/24/09 23:53</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>103%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C24026 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9C24026-BLK1)													Extracted: 03/24/09 16:27			
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	03/24/09 19:18			
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 95.4%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>03/24/09 19:18</i>
<i>Toluene-d8</i>													<i>94.2%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.2%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS (9C24026-BS1)													Extracted: 03/24/09 16:27			
Benzene	EPA 8260B	3.55	---	0.0200	mg/kg wet	1x	--	4.00	88.8%	(75-125)	--	--	03/24/09 17:51			
Ethylbenzene	"	3.50	---	0.100	"	"	--	"	87.6%	"	--	--	"			
Methyl tert-butyl ether	"	4.19	---	0.0500	"	"	--	"	105%	"	--	--	"			
Naphthalene	"	4.52	---	2.00	"	"	--	"	113%	(60-140)	--	--	"			
Toluene	"	3.26	---	0.100	"	"	--	"	81.5%	(75-125)	--	--	"			
o-Xylene	"	3.32	---	0.100	"	"	--	"	83.0%	"	--	--	"			
m,p-Xylene	"	6.69	---	0.200	"	"	--	8.00	83.7%	"	--	--	"			
Xylenes (total)	"	10.0	---	0.300	"	"	--	12.0	83.4%	"	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 105%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>03/24/09 17:51</i>
<i>Toluene-d8</i>													<i>86.5%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>94.5%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS Dup (9C24026-BSD1)													Extracted: 03/24/09 16:27			
Benzene	EPA 8260B	3.49	---	0.0200	mg/kg wet	1x	--	4.00	87.2%	(75-125)	1.85%	(20)	03/24/09 18:17			
Ethylbenzene	"	3.34	---	0.100	"	"	--	"	83.4%	"	4.94%	"	"			
Methyl tert-butyl ether	"	4.22	---	0.0500	"	"	--	"	105%	"	0.547%	"	"			
Naphthalene	"	4.53	---	2.00	"	"	--	"	113%	(60-140)	0.177%	"	"			
Toluene	"	3.16	---	0.100	"	"	--	"	79.1%	(75-125)	2.96%	"	"			
o-Xylene	"	3.11	---	0.100	"	"	--	"	77.7%	"	6.63%	"	"			
m,p-Xylene	"	6.40	---	0.200	"	"	--	8.00	80.0%	"	4.41%	"	"			
Xylenes (total)	"	9.51	---	0.300	"	"	--	12.0	79.3%	"	5.14%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 108%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>03/24/09 18:17</i>
<i>Toluene-d8</i>													<i>89.4%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>96.2%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C24035 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C24035-BLK1)										Extracted: 03/24/09 16:50				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	03/25/09 00:00	

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Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/25/09 16:05

CERTIFICATION SUMMARY

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Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/25/09 16:05

Notes and Definitions

Report Specific Notes:

- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Q10 - Hydrocarbon pattern most closely resembles a blend of Kerosene and Lube Oil.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA10245**

CLIENT: CONOCO PHILLIPS		INVOICE TO: CP		PRESERVATIVE		REQUESTED ANALYSES		TURNAROUND REQUEST					
REPORT TO: WMCP Staff		ADDRESS:		P.O. NUMBER:		OTHER: Specify:		in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses STD.					
PHONE:		FAX:		PROJECT NAME: WMCP		PROJECT NUMBER:		10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> <1 <input type="checkbox"/>					
SAMPLED BY: Matthew McElhin		SAMPLING DATE/TIME		CLIENT SAMPLE IDENTIFICATION		MATRIX (W, S, O)		# OF CONT.		LOCATION/ COMMENTS		TA WORD	
1	AREA2-J5-14	3-24-09	0800	8268	OTEX	LEAD	S	5					01
2	AREA2-I9-14	"	0805										02
3	AREA2-H6-14	"	0845										03
4	AREA2-H7-14	"	0915										04
5	Area2-H8-14	"	0930										05
6	Area2-G7-14	"	1300										06
7	Area2-G8-14	"	1310										07
8	Area2-G9-14	"	1330										08
9													
10													

RECEIVED BY: **Blankinsh...** DATE: **3/24/09**
 PRINT NAME: **Blankinsh...** TIME: **1440**
 RECEIVED BY: **Blankinsh...** DATE: **3/24/09**
 PRINT NAME: **Blankinsh...** TIME: **1440**

TEMP: **1.0** PAGE OF **1**
 ADDITIONAL REMARKS:
CP lab 10:20

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances? _____

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 3/24

Date: 3/24

Date: 3/24

Work Order No. BAP0245

Time: 10:20

Time: 10:35

Time: 10:45

Client: _____

Initials: CL

Initials: CL

Initials: CL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

Ship Container Sign By

Bubble Bags Styrofoam

Box

On Bottles Date

Foam Packs

None/Other _____

None

None/Other _____

Refrigerant:

Received Via: Bill#

Gel Ice Pack _____

Fed. Ex Client

Loose Ice _____

UPS TA Courier

None/Other _____

DHL Mid Valley

Senvoy TDP

GS Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? 1.0 °C or NA

Trip Blank? Y or N or NA

BP, OPLC, ARCO - Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? Y or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? Y or N _____

Adequate Volume? Y or N _____

#Containers match COC? Y or N _____

(for tests requested) Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? Y or N _____

Comments: _____

Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____

Y or N

Has client been contacted regarding non-conformances? _____

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

March 27, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 03/25/09 15:55.
The following list is a summary of the Work Orders contained in this report, generated on 03/27/09
15:28.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0260	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/27/09 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA2-G6-14	BSC0260-01	Soil	03/25/09 08:40	03/25/09 15:55
AREA2-G5-14	BSC0260-02	Soil	03/25/09 08:55	03/25/09 15:55
AREA2-F9-14	BSC0260-03	Soil	03/25/09 13:40	03/25/09 15:55
AREA2-F8-14	BSC0260-04	Soil	03/25/09 13:50	03/25/09 15:55

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/27/09 15:28

Analytical Case Narrative

TestAmerica - Seattle, WA

BSC0260

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

All samples have undergone acid/silica gel clean up. Both results are included in this revised report.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0260-01 (AREA2-G6-14)		Soil		Sampled: 03/25/09 08:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	306	----	15.4	mg/kg dry	1x	9C25046	03/25/09 17:29	03/26/09 07:26	
<i>Surrogate(s): 4-BFB (FID)</i>			226%		80 - 140 %	"			"	ZX
BSC0260-02 (AREA2-G5-14)		Soil		Sampled: 03/25/09 08:55						
Gasoline Range Hydrocarbons	NWTPH-Gx	1120	----	77.8	mg/kg dry	10x	9C25046	03/25/09 17:29	03/25/09 23:09	
<i>Surrogate(s): 4-BFB (FID)</i>			143%		80 - 140 %	1x			"	ZX
BSC0260-03 (AREA2-F9-14)		Soil		Sampled: 03/25/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	144	----	6.46	mg/kg dry	1x	9C25046	03/25/09 17:29	03/25/09 19:57	M1
<i>Surrogate(s): 4-BFB (FID)</i>			139%		80 - 140 %	"			"	
BSC0260-04 (AREA2-F8-14)		Soil		Sampled: 03/25/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	183	----	17.1	mg/kg dry	1x	9C25046	03/25/09 17:29	03/25/09 21:01	
<i>Surrogate(s): 4-BFB (FID)</i>			191%		80 - 140 %	"			"	ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0260-01 (AREA2-G6-14)		Soil			Sampled: 03/25/09 08:40					
Lube Oil	NWTPH-Dx	228	----	63.1	mg/kg dry	1x	9C25025	03/25/09 15:30	03/26/09 00:04	M1
Kerosene	"	86.3	----	25.2	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	149	----	25.2	"	"	"	"	"	Q12
<i>Surrogate(s): 2-FBP</i>			103%		60 - 135 %	"			"	
<i>Octacosane</i>			118%		75 - 125 %	"			"	
BSC0260-02 (AREA2-G5-14)		Soil			Sampled: 03/25/09 08:55					
Lube Oil	NWTPH-Dx	74.7	----	34.0	mg/kg dry	1x	9C25025	03/25/09 15:30	03/26/09 00:26	
Kerosene	"	57.3	----	13.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	43.8	----	13.6	"	"	"	"	"	Q5
<i>Surrogate(s): 2-FBP</i>			103%		60 - 135 %	"			"	
<i>Octacosane</i>			119%		75 - 125 %	"			"	
BSC0260-03 (AREA2-F9-14)		Soil			Sampled: 03/25/09 13:40					
Lube Oil	NWTPH-Dx	ND	----	32.6	mg/kg dry	1x	9C25025	03/25/09 15:30	03/26/09 10:23	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			96.3%		60 - 135 %	"			"	
<i>Octacosane</i>			122%		75 - 125 %	"			"	
BSC0260-04 (AREA2-F8-14)		Soil			Sampled: 03/25/09 13:50					
Lube Oil	NWTPH-Dx	81.6	----	59.7	mg/kg dry	1x	9C25025	03/25/09 15:30	03/26/09 10:44	
Kerosene	"	30.1	----	23.9	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	65.8	----	23.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			100%		60 - 135 %	"			"	
<i>Octacosane</i>			118%		75 - 125 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0260-01 (AREA2-G6-14)		Soil			Sampled: 03/25/09 08:40					
Lube Oil	NWTPH-Dx	142	----	63.1	mg/kg dry	1x	9C25025	03/25/09 15:30	03/26/09 19:55	
Kerosene	"	37.1	----	25.2	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	80.8	----	25.2	"	"	"	"	"	Q11
<i>Surrogate(s): 2-FBP</i>			92.6%		54 - 148 %	"			"	
<i>Octacosane</i>			103%		62 - 142 %	"			"	
BSC0260-02 (AREA2-G5-14)		Soil			Sampled: 03/25/09 08:55					
Lube Oil	NWTPH-Dx	40.2	----	34.0	mg/kg dry	1x	9C25025	03/25/09 15:30	03/26/09 20:18	
Kerosene	"	33.6	----	13.6	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	20.6	----	13.6	"	"	"	"	"	Q5
<i>Surrogate(s): 2-FBP</i>			91.3%		54 - 148 %	"			"	
<i>Octacosane</i>			102%		62 - 142 %	"			"	
BSC0260-03 (AREA2-F9-14)		Soil			Sampled: 03/25/09 13:40					
Lube Oil	NWTPH-Dx	ND	----	32.6	mg/kg dry	1x	9C25025	03/25/09 15:30	03/26/09 20:41	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			88.8%		54 - 148 %	"			"	
<i>Octacosane</i>			107%		62 - 142 %	"			"	
BSC0260-04 (AREA2-F8-14)		Soil			Sampled: 03/25/09 13:50					
Lube Oil	NWTPH-Dx	ND	----	59.7	mg/kg dry	1x	9C25025	03/25/09 15:30	03/26/09 21:04	
Kerosene	"	ND	----	23.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	30.8	----	23.9	"	"	"	"	"	Q3
<i>Surrogate(s): 2-FBP</i>			88.2%		54 - 148 %	"			"	
<i>Octacosane</i>			99.7%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/27/09 15:28

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0260-01 (AREA2-G6-14)		Soil		Sampled: 03/25/09 08:40						
Lead	EPA 6020	188	----	0.709	mg/kg dry	1x	9C25050	03/25/09 20:25	03/26/09 09:37	
BSC0260-02 (AREA2-G5-14)		Soil		Sampled: 03/25/09 08:55						
Lead	EPA 6020	161	----	0.669	mg/kg dry	1x	9C25050	03/25/09 20:25	03/26/09 09:43	
BSC0260-03 (AREA2-F9-14)		Soil		Sampled: 03/25/09 13:40						
Lead	EPA 6020	23.1	----	0.667	mg/kg dry	1x	9C25050	03/25/09 20:25	03/26/09 10:12	
BSC0260-04 (AREA2-F8-14)		Soil		Sampled: 03/25/09 13:50						
Lead	EPA 6020	61.6	----	1.09	mg/kg dry	1x	9C25050	03/25/09 20:25	03/26/09 10:18	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0260-01 (AREA2-G6-14)		Soil		Sampled: 03/25/09 08:40						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00145	mg/kg dry	1x	9C25041	03/25/09 16:57	03/25/09 20:09	
Surrogate(s):	1,2-DCA-d4		106%		70 - 140 %	"				
	Toluene-d8		126%		70 - 130 %	"				
	4-BFB		159%		70 - 130 %	"				ZX, I
BSC0260-02 (AREA2-G5-14)		Soil		Sampled: 03/25/09 08:55						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000837	mg/kg dry	1x	9C25041	03/25/09 16:57	03/25/09 21:00	
Surrogate(s):	1,2-DCA-d4		150%		70 - 140 %	"				ZX
	Toluene-d8		128%		70 - 130 %	"				
	4-BFB		222%		70 - 130 %	"				ZX, I2
BSC0260-03 (AREA2-F9-14)		Soil		Sampled: 03/25/09 13:40						
Benzene	EPA 8260B	0.0236	----	0.00102	mg/kg dry	1x	9C25041	03/25/09 16:57	03/25/09 21:51	
Methyl tert-butyl ether	"	ND	----	0.000683	"	"	"	"	"	
Naphthalene	"	0.123	----	0.00683	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		123%		70 - 140 %	"				
	Toluene-d8		103%		70 - 130 %	"				
	4-BFB		110%		70 - 130 %	"				
BSC0260-04 (AREA2-F8-14)		Soil		Sampled: 03/25/09 13:50						
Benzene	EPA 8260B	0.0375	----	0.00137	mg/kg dry	1x	9C25041	03/25/09 16:57	03/25/09 22:42	
Methyl tert-butyl ether	"	ND	----	0.000913	"	"	"	"	"	
Naphthalene	"	0.167	----	0.00913	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		127%		70 - 140 %	"				
	Toluene-d8		108%		70 - 130 %	"				
	4-BFB		119%		70 - 130 %	"				

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/27/09 15:28

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0260-01 (AREA2-G6-14)		Soil		Sampled: 03/25/09 08:40						
Benzene	EPA 8260B	0.468	----	0.0615	mg/kg dry	1x	9C25045	03/25/09 16:41	03/25/09 17:34	
Ethylbenzene	"	3.40	----	0.308	"	"	"	"	"	
Naphthalene	"	ND	----	6.15	"	"	"	"	"	
Toluene	"	1.79	----	0.308	"	"	"	"	"	
o-Xylene	"	3.13	----	0.308	"	"	"	"	"	
m,p-Xylene	"	10.4	----	0.615	"	"	"	"	"	
Xylenes (total)	"	13.5	----	0.923	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			103%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.8%		75 - 125 %	"				"
<i>4-BFB</i>			96.6%		75 - 125 %	"				"
BSC0260-02 (AREA2-G5-14)		Soil		Sampled: 03/25/09 08:55						
Benzene	EPA 8260B	2.73	----	0.0311	mg/kg dry	1x	9C25045	03/25/09 16:41	03/25/09 18:01	
Naphthalene	"	6.12	----	3.11	"	"	"	"	"	
Toluene	"	14.9	----	0.156	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			106%		75 - 125 %	"				"
<i>Toluene-d8</i>			92.8%		75 - 125 %	"				"
<i>4-BFB</i>			95.1%		75 - 125 %	"				"
BSC0260-02RE1 (AREA2-G5-14)		Soil		Sampled: 03/25/09 08:55						
Ethylbenzene	EPA 8260B	11.7	----	1.56	mg/kg dry	10x	9C26025	03/26/09 11:45	03/26/09 15:34	
o-Xylene	"	11.1	----	1.56	"	"	"	"	"	
m,p-Xylene	"	37.9	----	3.11	"	"	"	"	"	
Xylenes (total)	"	49.0	----	4.67	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			99.1%		75 - 125 %	"				"
<i>Toluene-d8</i>			90.7%		75 - 125 %	"				"
<i>4-BFB</i>			94.2%		75 - 125 %	"				"
BSC0260-03 (AREA2-F9-14)		Soil		Sampled: 03/25/09 13:40						
Ethylbenzene	EPA 8260B	0.675	----	0.129	mg/kg dry	1x	9C25045	03/25/09 16:41	03/25/09 18:28	
Toluene	"	0.345	----	0.129	"	"	"	"	"	
o-Xylene	"	0.876	----	0.129	"	"	"	"	"	
m,p-Xylene	"	2.72	----	0.258	"	"	"	"	"	
Xylenes (total)	"	3.60	----	0.388	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			101%		75 - 125 %	"				"
<i>Toluene-d8</i>			96.8%		75 - 125 %	"				"
<i>4-BFB</i>			99.9%		75 - 125 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/27/09 15:28

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0260-04 (AREA2-F8-14)										
		Soil			Sampled: 03/25/09 13:50					
Ethylbenzene	EPA 8260B	1.80	----	0.341	mg/kg dry	1x	9C25045	03/25/09 16:41	03/25/09 18:55	
Toluene	"	0.956	----	0.341	"	"	"	"	"	
o-Xylene	"	1.85	----	0.341	"	"	"	"	"	
m,p-Xylene	"	5.53	----	0.683	"	"	"	"	"	
Xylenes (total)	"	7.39	----	1.02	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		100%		75 - 125 %	"				"
	Toluene-d8		96.8%		75 - 125 %	"				"
	4-BFB		99.8%		75 - 125 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/27/09 15:28

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0260-01 (AREA2-G6-14)		Soil								Sampled: 03/25/09 08:40
Dry Weight	BSOPSP003R0 8	39.4	----	1.00	%	1x	9C25029	03/25/09 12:37	03/26/09 00:00	
BSC0260-02 (AREA2-G5-14)		Soil								Sampled: 03/25/09 08:55
Dry Weight	BSOPSP003R0 8	73.3	----	1.00	%	1x	9C25029	03/25/09 12:37	03/26/09 00:00	
BSC0260-03 (AREA2-F9-14)		Soil								Sampled: 03/25/09 13:40
Dry Weight	BSOPSP003R0 8	75.7	----	1.00	%	1x	9C25029	03/25/09 13:50	03/26/09 00:00	
BSC0260-04 (AREA2-F8-14)		Soil								Sampled: 03/25/09 13:50
Dry Weight	BSOPSP003R0 8	41.6	----	1.00	%	1x	9C25029	03/25/09 13:50	03/26/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25046 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C25046-BLK1)

Extracted: 03/25/09 17:29

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/25/09 18:53	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/25/09 18:53</i>	

LCS (9C25046-BS1)

Extracted: 03/25/09 17:29

Gasoline Range Hydrocarbons	NWTPH-Gx	58.0	---	5.00	mg/kg wet	1x	--	50.0	116%	(80-120)	--	--	03/25/09 19:25	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 107%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/25/09 19:25</i>	

Duplicate (9C25046-DUP1)

QC Source: BSC0260-03

Extracted: 03/25/09 17:29

Gasoline Range Hydrocarbons	NWTPH-Gx	143	---	6.46	mg/kg dry	1x	144	--	--	--	0.668% (40)	--	03/25/09 20:29	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 143%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/25/09 20:29</i>	ZX

Matrix Spike (9C25046-MS1)

QC Source: BSC0260-03

Extracted: 03/25/09 17:29

Gasoline Range Hydrocarbons	NWTPH-Gx	226	---	6.46	mg/kg dry	1x	144	48.5	167%	(75-130)	--	--	03/25/09 23:41	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 141%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/25/09 23:41</i>	ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25025 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C25025-BLK1)

Extracted: 03/25/09 15:30

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/25/09 19:27	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.8%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/25/09 19:27</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>112%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9C25025-BS1)

Extracted: 03/25/09 15:30

Lube Oil	NWTPH-Dx	69.0	---	25.0	mg/kg wet	1x	--	66.7	104%	(63-125)	--	--	03/25/09 19:48	
Diesel Range Hydrocarbons	"	76.0	---	10.0	"	"	--	"	114%	(75-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.4%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/25/09 19:48</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

Duplicate (9C25025-DUP1)

QC Source: BSC0260-01

Extracted: 03/25/09 15:30

Lube Oil	NWTPH-Dx	295	---	63.5	mg/kg dry	1x	228	--	--	--	25.6% (40)		03/25/09 20:09	
Kerosene	"	94.3	---	25.4	"	"	86.3	--	--	--	8.85% "		"	
Diesel Range Hydrocarbons	"	162	---	25.4	"	"	149	--	--	--	8.46% "		"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.7%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/25/09 20:09</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>117%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

Duplicate (9C25025-DUP2)

QC Source: BSC0260-04

Extracted: 03/25/09 15:30

Lube Oil	NWTPH-Dx	71.3	---	59.9	mg/kg dry	1x	81.6	--	--	--	13.5% (40)		03/25/09 20:30	
Kerosene	"	ND	---	24.0	"	"	30.1	--	--	--	31.9% "		"	
Diesel Range Hydrocarbons	"	45.9	---	24.0	"	"	65.8	--	--	--	35.5% "		"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.5%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/25/09 20:30</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>112%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9C25025-MS1)

QC Source: BSC0260-01

Extracted: 03/25/09 15:30

Lube Oil	NWTPH-Dx	657	---	63.5	mg/kg dry	1x	228	169	254%	(26-150)	--	--	03/25/09 20:52	MI
Diesel Range Hydrocarbons	"	392	---	25.4	"	"	149	"	144%	(40-145)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.2%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>03/25/09 20:52</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>112%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/27/09 15:28

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25025

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9C25025-BLK2)													Extracted: 03/25/09 15:30			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/26/09 18:00			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 86.9%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>03/26/09 18:00</i>				
<i>Octacosane</i>		<i>105%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>				
LCS (9C25025-BS2)													Extracted: 03/25/09 15:30			
Lube Oil	NWTPH-Dx	56.8	---	25.0	mg/kg wet	1x	--	66.7	85.2%	(63-125)	--	--	03/26/09 18:23			
Diesel Range Hydrocarbons	"	60.1	---	10.0	"	"	--	"	90.2%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 96.4%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>03/26/09 18:23</i>				
<i>Octacosane</i>		<i>106%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>				
Duplicate (9C25025-DUP3)													QC Source: BSC0260-01		Extracted: 03/25/09 15:30	
Lube Oil	NWTPH-Dx	186	---	63.5	mg/kg dry	1x	142	--	--	--	27.0%	(50)	03/26/09 18:46			
Kerosene	"	51.6	---	25.4	"	"	37.1	--	--	--	32.5%	(40)	"			
Diesel Range Hydrocarbons	"	103	---	25.4	"	"	80.8	--	--	--	23.8%	(50)	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 93.7%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>03/26/09 18:46</i>				
<i>Octacosane</i>		<i>104%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>				
Duplicate (9C25025-DUP4)													QC Source: BSC0260-04		Extracted: 03/25/09 15:30	
Lube Oil	NWTPH-Dx	ND	---	59.9	mg/kg dry	1x	ND	--	--	--	7.16%	(50)	03/26/09 19:09			
Kerosene	"	ND	---	24.0	"	"	ND	--	--	--	17.6%	(40)	"			
Diesel Range Hydrocarbons	"	ND	---	24.0	"	"	30.8	--	--	--	31.6%	(50)	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 86.6%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>03/26/09 19:09</i>				
<i>Octacosane</i>		<i>98.3%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>				
Matrix Spike (9C25025-MS2)													QC Source: BSC0260-01		Extracted: 03/25/09 15:30	
Lube Oil	NWTPH-Dx	370	---	63.5	mg/kg dry	1x	142	169	135%	(50-150)	--	--	03/26/09 19:32			
Diesel Range Hydrocarbons	"	246	---	25.4	"	"	80.8	"	97.5%	(46-155)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 84.3%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>03/26/09 19:32</i>				
<i>Octacosane</i>		<i>93.3%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>				

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25050 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C25050-BLK1)								Extracted: 03/25/09 20:25						
Lead	EPA 6020	ND	---	0.510	mg/kg wet	1x	--	--	--	--	--	--	03/26/09 09:07	
LCS (9C25050-BS1)								Extracted: 03/25/09 20:25						
Lead	EPA 6020	42.1	---	0.485	mg/kg wet	1x	--	38.8	108%	(80-120)	--	--	03/26/09 09:13	
Duplicate (9C25050-DUP1)				QC Source: BSC0260-03				Extracted: 03/25/09 20:25						
Lead	EPA 6020	19.8	---	0.661	mg/kg dry	1x	23.1	--	--	--	15.6% (20)	--	03/26/09 09:31	
Matrix Spike (9C25050-MS1)				QC Source: BSC0260-03				Extracted: 03/25/09 20:25						
Lead	EPA 6020	79.1	---	0.674	mg/kg dry	1x	23.1	53.9	104%	(75-125)	--	--	03/26/09 09:25	
Post Spike (9C25050-PS1)				QC Source: BSC0260-03				Extracted: 03/25/09 20:25						
Lead	EPA 6020	0.152	---		ug/ml	1x	0.0350	0.100	116%	(80-120)	--	--	03/26/09 09:19	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25041 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C25041-BLK1)

Extracted: 03/25/09 12:57

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	03/25/09 16:32	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	03/27/09 15:28

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25041 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C25041-BLK1)													Extracted: 03/25/09 12:57	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	03/25/09 16:32	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>129%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>							<i>03/25/09 16:32</i>	
	<i>Toluene-d8</i>		<i>96.2%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>104%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 03/27/09 15:28

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25041 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9C25041-BS1)													Extracted: 03/25/09 12:57	
Acetone	EPA 8260B	0.606	---	0.0400	mg/kg wet	1x	--	0.500	121%	(60-140)	--	--	03/25/09 15:41	
Benzene	"	0.0511	---	0.00150	"	"	--	0.0500	102%	(70-125)	--	--	"	
2-Butanone	"	0.582	---	0.0300	"	"	--	0.500	116%	(60-140)	--	--	"	
Carbon disulfide	"	0.0491	---	0.00300	"	"	--	0.0500	98.3%	(70-130)	--	--	"	
Chlorobenzene	"	0.0465	---	0.00200	"	"	--	"	93.1%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0535	---	0.00200	"	"	--	"	107%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0550	---	0.00300	"	"	--	"	110%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0534	---	0.00300	"	"	--	"	107%	(75-125)	--	--	"	
Ethylbenzene	"	0.0485	---	0.00400	"	"	--	"	97.0%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0546	---	0.0100	"	"	--	"	109%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.551	---	0.0300	"	"	--	0.500	110%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0492	---	0.00200	"	"	--	0.0500	98.3%	(70-125)	--	--	"	
Toluene	"	0.0495	---	0.00150	"	"	--	"	98.9%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0523	---	0.00250	"	"	--	"	105%	(70-130)	--	--	"	
Trichloroethene	"	0.0485	---	0.00250	"	"	--	"	96.9%	(70-125)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>							<i>03/25/09 15:41</i>	
<i>Toluene-d8</i>			<i>101%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	

LCS Dup (9C25041-BSD1)

Extracted: 03/25/09 12:57

Acetone	EPA 8260B	0.505	---	0.0400	mg/kg wet	1x	--	0.500	101%	(60-140)	18.2% (30)		03/25/09 16:06	
Benzene	"	0.0507	---	0.00150	"	"	--	0.0500	101%	(70-125)	0.884%	"	"	
2-Butanone	"	0.519	---	0.0300	"	"	--	0.500	104%	(60-140)	11.4%	"	"	
Carbon disulfide	"	0.0467	---	0.00300	"	"	--	0.0500	93.4%	(70-130)	5.05%	"	"	
Chlorobenzene	"	0.0484	---	0.00200	"	"	--	"	96.8%	(70-125)	3.94%	"	"	
1,1-Dichloroethane	"	0.0514	---	0.00200	"	"	--	"	103%	(75-125)	3.91%	"	"	
1,1-Dichloroethene	"	0.0520	---	0.00300	"	"	--	"	104%	(70-130)	5.61%	"	"	
cis-1,2-Dichloroethene	"	0.0510	---	0.00300	"	"	--	"	102%	(75-125)	4.64%	"	"	
Ethylbenzene	"	0.0490	---	0.00400	"	"	--	"	98.0%	(70-125)	1.03%	"	"	
Hexachlorobutadiene	"	0.0512	---	0.0100	"	"	--	"	102%	(70-130)	6.35%	"	"	
4-Methyl-2-pentanone	"	0.503	---	0.0300	"	"	--	0.500	101%	(60-140)	9.20%	"	"	
Tetrachloroethene	"	0.0487	---	0.00200	"	"	--	0.0500	97.5%	(70-125)	0.858%	"	"	
Toluene	"	0.0490	---	0.00150	"	"	--	"	98.1%	"	0.893%	"	"	
1,1,1-Trichloroethane	"	0.0499	---	0.00250	"	"	--	"	99.8%	(70-130)	4.70%	"	"	
Trichloroethene	"	0.0487	---	0.00250	"	"	--	"	97.5%	(70-125)	0.556%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>							<i>03/25/09 16:06</i>	
<i>Toluene-d8</i>			<i>98.9%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>104%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25045 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9C25045-BLK1)													Extracted: 03/25/09 10:41			
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	03/25/09 14:37			
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 93.8%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>03/25/09 14:37</i>
<i>Toluene-d8</i>													<i>97.0%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>102%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS (9C25045-BS1)													Extracted: 03/25/09 10:41			
Benzene	EPA 8260B	3.95	---	0.0200	mg/kg wet	1x	--	4.00	98.8%	(75-125)	--	--	03/25/09 13:09			
Ethylbenzene	"	3.71	---	0.100	"	"	--	"	92.7%	"	--	--	"			
Methyl tert-butyl ether	"	4.29	---	0.0500	"	"	--	"	107%	"	--	--	"			
Naphthalene	"	4.62	---	2.00	"	"	--	"	115%	(60-140)	--	--	"			
Toluene	"	3.59	---	0.100	"	"	--	"	89.7%	(75-125)	--	--	"			
o-Xylene	"	3.36	---	0.100	"	"	--	"	84.1%	"	--	--	"			
m,p-Xylene	"	6.99	---	0.200	"	"	--	8.00	87.4%	"	--	--	"			
Xylenes (total)	"	10.4	---	0.300	"	"	--	12.0	86.3%	"	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 104%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>03/25/09 13:09</i>
<i>Toluene-d8</i>													<i>92.6%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>98.6%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS Dup (9C25045-BSD1)													Extracted: 03/25/09 10:41			
Benzene	EPA 8260B	3.98	---	0.0200	mg/kg wet	1x	--	4.00	99.5%	(75-125)	0.706% (20)	--	03/25/09 13:36			
Ethylbenzene	"	3.64	---	0.100	"	"	--	"	91.1%	"	1.74%	"	"			
Methyl tert-butyl ether	"	4.19	---	0.0500	"	"	--	"	105%	"	2.26%	"	"			
Naphthalene	"	4.37	---	2.00	"	"	--	"	109%	(60-140)	5.61%	"	"			
Toluene	"	3.58	---	0.100	"	"	--	"	89.6%	(75-125)	0.167%	"	"			
o-Xylene	"	3.41	---	0.100	"	"	--	"	85.2%	"	1.27%	"	"			
m,p-Xylene	"	7.08	---	0.200	"	"	--	8.00	88.5%	"	1.24%	"	"			
Xylenes (total)	"	10.5	---	0.300	"	"	--	12.0	87.4%	"	1.25%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 103%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>03/25/09 13:36</i>
<i>Toluene-d8</i>													<i>93.4%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>98.6%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/27/09 15:28
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C26025 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C26025-BLK1)													Extracted: 03/26/09 11:45	
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	03/26/09 15:07	C4
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	C4
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>94.7%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/26/09 15:07</i>	
<i>Toluene-d8</i>		<i>91.6%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>99.4%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9C26025-BS1)													Extracted: 03/26/09 11:45	
Benzene	EPA 8260B	3.61	---	0.0200	mg/kg wet	1x	--	4.00	90.3%	(75-125)	--	--	03/26/09 13:39	C4
Ethylbenzene	"	3.60	---	0.100	"	"	--	"	90.1%	"	--	--	"	
Methyl tert-butyl ether	"	4.08	---	0.0500	"	"	--	"	102%	"	--	--	"	
Naphthalene	"	4.41	---	2.00	"	"	--	"	110%	(60-140)	--	--	"	
Toluene	"	3.36	---	0.100	"	"	--	"	83.9%	(75-125)	--	--	"	C4
o-Xylene	"	3.32	---	0.100	"	"	--	"	83.0%	"	--	--	"	
m,p-Xylene	"	6.81	---	0.200	"	"	--	8.00	85.1%	"	--	--	"	
Xylenes (total)	"	10.1	---	0.300	"	"	--	12.0	84.4%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/26/09 13:39</i>	
<i>Toluene-d8</i>		<i>86.2%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>95.2%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9C26025-BSD1)													Extracted: 03/26/09 11:45	
Benzene	EPA 8260B	3.60	---	0.0200	mg/kg wet	1x	--	4.00	90.1%	(75-125)	0.222% (20)		03/26/09 14:06	C4
Ethylbenzene	"	3.50	---	0.100	"	"	--	"	87.5%	"	2.90%	"	"	
Methyl tert-butyl ether	"	4.04	---	0.0500	"	"	--	"	101%	"	0.911%	"	"	
Naphthalene	"	4.63	---	2.00	"	"	--	"	116%	(60-140)	4.87%	"	"	
Toluene	"	3.31	---	0.100	"	"	--	"	82.8%	(75-125)	1.41%	"	"	C4
o-Xylene	"	3.31	---	0.100	"	"	--	"	82.6%	"	0.392%	"	"	
m,p-Xylene	"	6.78	---	0.200	"	"	--	8.00	84.8%	"	0.353%	"	"	
Xylenes (total)	"	10.1	---	0.300	"	"	--	12.0	84.1%	"	0.366%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/26/09 14:06</i>	
<i>Toluene-d8</i>		<i>87.5%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>95.2%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	03/27/09 15:28
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C25029 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C25029-BLK1)										Extracted: 03/25/09 12:37				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	03/26/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/27/09 15:28

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/27/09 15:28

Notes and Definitions

Report Specific Notes:

- C4 - Calibration Verification recovery was below the method control limit for this analyte.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- I2 - Internal Standard recovery was outside of method limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Q1 - Does not match typical pattern
- Q11 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel.
- Q12 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.
- Q3 - The chromatographic pattern is not consistent with diesel fuel.
- Q5 - Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSC0260**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: WMCP Staff		P.O. NUMBER:		in Business Days *	
PHONE:		FAX:		Organic & Inorganic Analyses	
PROJECT NAME: WMCP		PRESERVATIVE		Petroleum Hydrocarbon Analyses	
PROJECT NUMBER:		REQUESTED ANALYSES		STD.	
SAMPLED BY: Matthew McKibbin		DATE/TIME		OTHER Specify:	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MTBE	BTEX	MTBE	MTBE
1. AREA2-G6-14	3-25-09 / 0840	X	X	X	5 4 3 2 1
2. AREA2-G5-14	" " / 0855	X	X	X	5 4 3 2 1
3. AREA2-F9-14	" " / 1340	X	X	X	5 4 3 2 1
4. AREA2-F8-14	" " / 1350	X	X	X	5 4 3 2 1
5. AREA2-F8-14	" " / 1350	X	X	X	5 4 3 2 1
6.					
7.					
8.					
9.					
10.					

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
S	5	PID= 51ppm -01	
		" 79ppm -02	
		" 17ppm -03	
		" 11ppm -04	
		High Wood	
		Content in Soil	

RELEASED BY:	DATE:	TIME:	FIRM:
<i>Matthew McKibbin</i>	3/25/09	1430	was
RECEIVED BY:	DATE:	TIME:	FIRM:
<i>Blankinship</i>	3/25/09	1500	TA-S

ADDITIONAL REMARKS:
 * BTEX, MTBE, + Naphthalene (8260B) - Trip Blank Included ① w/ Acid/Silica Gel CU method
 @/ab 1555 w/o

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

24

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____

(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 3/25/09

Date: 3/25

Date: 3/25 ^{CG 3/25}

Work Order No. BSC0260

Time: 1555

Time: 1610

Time: 15:45 ^{16:45}

Client: _____

Initials: TB

Initials: TB

Initials: CB

Project: _____

Container Type: _____

COC Seals: _____

Packing Material: _____

Cooler

____ Ship Container _____ Sign By

Bubble Bags

____ Styrofoam

____ Box

____ On Bottles _____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant: _____

Gel Ice Pack _____

____ Loose Ice _____

____ None/Other _____

Received Via: Bill# _____

____ Fed Ex _____ Client

____ UPS TA Courier

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? 3.1 °C or NA

(circle one) 1.7, 3.1

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers: _____

ID

ID

Intact? or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N _____

Adequate Volume? or N _____

#Containers match COC? Y or N _____

(for tests requested) Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? Y or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

March 30, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 03/27/09 15:45.
The following list is a summary of the Work Orders contained in this report, generated on 03/30/09
13:49.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0295	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area-2-F5-14	BSC0295-01	Soil	03/27/09 10:50	03/27/09 15:45
Area-2-F6-14	BSC0295-02	Soil	03/27/09 10:30	03/27/09 15:45
Area-2-F7-14	BSC0295-03	Soil	03/27/09 10:15	03/27/09 15:45
Area-2-E9-14	BSC0295-04	Soil	03/27/09 11:10	03/27/09 15:45
Area-2-E8-14	BSC0295-05	Soil	03/27/09 11:25	03/27/09 15:45
Area-2-E7-14	BSC0295-06	Soil	03/27/09 11:50	03/27/09 15:45
Area-2-E6-14	BSC0295-07	Soil	03/27/09 12:10	03/27/09 15:45
Area-2-F10-14	BSC0295-08	Soil	03/27/09 12:30	03/27/09 15:45
Area-2-E10-14	BSC0295-09	Soil	03/27/09 12:55	03/27/09 15:45
Area-2-E5-14	BSC0295-10	Soil	03/27/09 14:05	03/27/09 15:45
Area-2-D5-14	BSC0295-11	Soil	03/27/09 14:30	03/27/09 15:45
DUP-2	BSC0295-12	Soil	03/27/09 12:00	03/27/09 15:45

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-01 (Area-2-F5-14)		Soil								Sampled: 03/27/09 10:50
Gasoline Range Hydrocarbons	NWTPH-Gx	267	----	17.8	mg/kg dry	1x	9C27031	03/27/09 17:55	03/28/09 02:48	
<i>Surrogate(s): 4-BFB (FID)</i>			211%		80 - 140 %	"			"	ZX
BSC0295-02 (Area-2-F6-14)		Soil								Sampled: 03/27/09 10:30
Gasoline Range Hydrocarbons	NWTPH-Gx	290	----	10.3	mg/kg dry	1x	9C27031	03/27/09 17:55	03/28/09 03:20	
<i>Surrogate(s): 4-BFB (FID)</i>			198%		80 - 140 %	"			"	ZX
BSC0295-03 (Area-2-F7-14)		Soil								Sampled: 03/27/09 10:15
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	45.3	mg/kg dry	1x	9C27031	03/27/09 17:55	03/27/09 18:48	M1
<i>Surrogate(s): 4-BFB (FID)</i>			163%		80 - 140 %	"			"	ZX
BSC0295-04 (Area-2-E9-14)		Soil								Sampled: 03/27/09 11:10
Gasoline Range Hydrocarbons	NWTPH-Gx	82.4	----	31.0	mg/kg dry	1x	9C27031	03/27/09 17:55	03/27/09 19:53	
<i>Surrogate(s): 4-BFB (FID)</i>			153%		80 - 140 %	"			"	ZX
BSC0295-05 (Area-2-E8-14)		Soil								Sampled: 03/27/09 11:25
Gasoline Range Hydrocarbons	NWTPH-Gx	134	----	11.6	mg/kg dry	1x	9C27031	03/27/09 17:55	03/27/09 20:56	
<i>Surrogate(s): 4-BFB (FID)</i>			182%		80 - 140 %	"			"	ZX
BSC0295-06 (Area-2-E7-14)		Soil								Sampled: 03/27/09 11:50
Gasoline Range Hydrocarbons	NWTPH-Gx	67.8	----	40.8	mg/kg dry	1x	9C27031	03/27/09 17:55	03/28/09 10:57	
<i>Surrogate(s): 4-BFB (FID)</i>			149%		80 - 140 %	"			"	ZX
BSC0295-07 (Area-2-E6-14)		Soil								Sampled: 03/27/09 12:10
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	41.5	mg/kg dry	1x	9C27031	03/27/09 17:55	03/27/09 22:00	
<i>Surrogate(s): 4-BFB (FID)</i>			153%		80 - 140 %	"			"	ZX
BSC0295-08 (Area-2-F10-14)		Soil								Sampled: 03/27/09 12:30
Gasoline Range Hydrocarbons	NWTPH-Gx	11.5	----	7.39	mg/kg dry	1x	9C27031	03/27/09 17:55	03/28/09 00:08	
<i>Surrogate(s): 4-BFB (FID)</i>			140%		80 - 140 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-09 (Area-2-E10-14)		Soil		Sampled: 03/27/09 12:55						
Gasoline Range Hydrocarbons	NWTPH-Gx	73.2	----	48.9	mg/kg dry	1x	9C27031	03/27/09 17:55	03/28/09 00:40	
<i>Surrogate(s): 4-BFB (FID)</i>			157%		80 - 140 %	"				ZX
BSC0295-10 (Area-2-E5-14)		Soil		Sampled: 03/27/09 14:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	90.5	----	7.55	mg/kg dry	1x	9C27031	03/27/09 17:55	03/28/09 01:12	
<i>Surrogate(s): 4-BFB (FID)</i>			162%		80 - 140 %	"				ZX
BSC0295-11 (Area-2-D5-14)		Soil		Sampled: 03/27/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	335	----	29.2	mg/kg dry	5x	9C27031	03/27/09 17:55	03/28/09 11:29	
<i>Surrogate(s): 4-BFB (FID)</i>			135%		80 - 140 %	1x				
BSC0295-12 (DUP-2)		Soil		Sampled: 03/27/09 12:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	53.0	----	7.22	mg/kg dry	1x	9C27031	03/27/09 17:55	03/28/09 02:16	
<i>Surrogate(s): 4-BFB (FID)</i>			172%		80 - 140 %	"				ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-01 (Area-2-F5-14)		Soil			Sampled: 03/27/09 10:50					
Lube Oil	NWTPH-Dx	219	----	58.6	mg/kg dry	1x	9C27025	03/27/09 16:49	03/27/09 21:42	
Kerosene	"	43.0	----	23.4	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	304	----	23.4	"	"	"	"	"	QP
Surrogate(s): 2-FBP			95.9%		54 - 148 %	"			"	
Octacosane			111%		62 - 142 %	"			"	
BSC0295-02 (Area-2-F6-14)		Soil			Sampled: 03/27/09 10:30					
Lube Oil	NWTPH-Dx	266	----	45.3	mg/kg dry	1x	9C27025	03/27/09 16:49	03/27/09 22:05	
Kerosene	"	83.5	----	18.1	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	177	----	18.1	"	"	"	"	"	Q3
Surrogate(s): 2-FBP			99.3%		54 - 148 %	"			"	
Octacosane			110%		62 - 142 %	"			"	
BSC0295-03 (Area-2-F7-14)		Soil			Sampled: 03/27/09 10:15					
Lube Oil	NWTPH-Dx	ND	----	103	mg/kg dry	1x	9C27025	03/27/09 16:49	03/27/09 22:27	
Kerosene	"	ND	----	41.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	98.4	----	41.3	"	"	"	"	"	QP
Surrogate(s): 2-FBP			86.2%		54 - 148 %	"			"	
Octacosane			106%		62 - 142 %	"			"	
BSC0295-04 (Area-2-E9-14)		Soil			Sampled: 03/27/09 11:10					
Lube Oil	NWTPH-Dx	ND	----	77.8	mg/kg dry	1x	9C27025	03/27/09 16:49	03/27/09 22:50	
Kerosene	"	ND	----	31.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	31.1	"	"	"	"	"	
Surrogate(s): 2-FBP			94.7%		54 - 148 %	"			"	
Octacosane			108%		62 - 142 %	"			"	
BSC0295-05 (Area-2-E8-14)		Soil			Sampled: 03/27/09 11:25					
Lube Oil	NWTPH-Dx	43.9	----	43.6	mg/kg dry	1x	9C27025	03/27/09 16:49	03/27/09 23:13	
Kerosene	"	ND	----	17.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	24.1	----	17.4	"	"	"	"	"	Q3
Surrogate(s): 2-FBP			86.8%		54 - 148 %	"			"	
Octacosane			104%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-06 (Area-2-E7-14)		Soil		Sampled: 03/27/09 11:50						
Lube Oil	NWTPH-Dx	ND	----	95.4	mg/kg dry	1x	9C27025	03/27/09 16:49	03/28/09 01:07	
Kerosene	"	ND	----	38.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	38.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			91.2%		54 - 148 %	"				"
<i>Octacosane</i>			108%		62 - 142 %	"				"
BSC0295-07 (Area-2-E6-14)		Soil		Sampled: 03/27/09 12:10						
Lube Oil	NWTPH-Dx	309	----	95.3	mg/kg dry	1x	9C27025	03/27/09 16:49	03/28/09 01:30	
Kerosene	"	ND	----	38.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	154	----	38.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			88.1%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSC0295-08 (Area-2-F10-14)		Soil		Sampled: 03/27/09 12:30						
Lube Oil	NWTPH-Dx	ND	----	35.1	mg/kg dry	1x	9C27025	03/27/09 16:49	03/28/09 01:52	
Kerosene	"	ND	----	14.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	14.8	----	14.0	"	"	"	"	"	Q3
<i>Surrogate(s): 2-FBP</i>			82.8%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSC0295-09 (Area-2-E10-14)		Soil		Sampled: 03/27/09 12:55						
Lube Oil	NWTPH-Dx	244	----	114	mg/kg dry	1x	9C27025	03/27/09 16:49	03/28/09 02:15	
Kerosene	"	ND	----	45.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	101	----	45.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.7%		54 - 148 %	"				"
<i>Octacosane</i>			100%		62 - 142 %	"				"
BSC0295-10 (Area-2-E5-14)		Soil		Sampled: 03/27/09 14:05						
Lube Oil	NWTPH-Dx	85.0	----	32.7	mg/kg dry	1x	9C27025	03/27/09 16:49	03/28/09 02:38	
Kerosene	"	29.8	----	13.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	56.6	----	13.1	"	"	"	"	"	QP
<i>Surrogate(s): 2-FBP</i>			90.0%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-11 (Area-2-D5-14)		Soil		Sampled: 03/27/09 14:30						
Lube Oil	NWTPH-Dx	57.9	----	30.4	mg/kg dry	1x	9C27025	03/27/09 16:49	03/28/09 03:01	
Kerosene	"	31.8	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	33.1	----	12.2	"	"	"	"	"	Q3
<i>Surrogate(s): 2-FBP</i>			<i>91.3%</i>		<i>54 - 148 %</i>	"				
<i>Octacosane</i>			<i>107%</i>		<i>62 - 142 %</i>	"				
BSC0295-12 (DUP-2)		Soil		Sampled: 03/27/09 12:00						
Lube Oil	NWTPH-Dx	ND	----	33.2	mg/kg dry	1x	9C27025	03/27/09 16:49	03/28/09 03:24	
Kerosene	"	ND	----	13.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	16.2	----	13.3	"	"	"	"	"	Q3
<i>Surrogate(s): 2-FBP</i>			<i>91.5%</i>		<i>54 - 148 %</i>	"				
<i>Octacosane</i>			<i>106%</i>		<i>62 - 142 %</i>	"				

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-01 (Area-2-F5-14)		Soil						Sampled: 03/27/09 10:50		
Lead	EPA 6020	84.8	----	0.761	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 09:30	
BSC0295-02 (Area-2-F6-14)		Soil						Sampled: 03/27/09 10:30		
Lead	EPA 6020	88.2	----	0.675	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 09:36	
BSC0295-03 (Area-2-F7-14)		Soil						Sampled: 03/27/09 10:15		
Lead	EPA 6020	36.4	----	2.07	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 10:02	
BSC0295-04 (Area-2-E9-14)		Soil						Sampled: 03/27/09 11:10		
Lead	EPA 6020	63.5	----	1.51	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 10:09	
BSC0295-05 (Area-2-E8-14)		Soil						Sampled: 03/27/09 11:25		
Lead	EPA 6020	48.5	----	0.843	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 10:15	
BSC0295-06 (Area-2-E7-14)		Soil						Sampled: 03/27/09 11:50		
Lead	EPA 6020	92.2	----	1.86	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 10:22	
BSC0295-07 (Area-2-E6-14)		Soil						Sampled: 03/27/09 12:10		
Lead	EPA 6020	86.4	----	1.87	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 10:28	
BSC0295-08 (Area-2-F10-14)		Soil						Sampled: 03/27/09 12:30		
Lead	EPA 6020	25.7	----	0.723	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 10:35	
BSC0295-09 (Area-2-E10-14)		Soil						Sampled: 03/27/09 12:55		
Lead	EPA 6020	100	----	2.30	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 10:41	
BSC0295-10 (Area-2-E5-14)		Soil						Sampled: 03/27/09 14:05		
Lead	EPA 6020	21.1	----	0.648	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 10:48	
BSC0295-11 (Area-2-D5-14)		Soil						Sampled: 03/27/09 14:30		
Lead	EPA 6020	44.3	----	0.616	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 10:54	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	03/30/09 13:49
	Project Manager:	Ty Griffith	

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-12 (DUP-2)		Soil			Sampled: 03/27/09 12:00					
Lead	EPA 6020	30.7	----	0.649	mg/kg dry	1x	9C27035	03/27/09 19:25	03/30/09 11:01	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSC0295-01 (Area-2-F5-14)		Soil		Sampled: 03/27/09 10:50							
Benzene	EPA 8260B	0.171	----	0.00288	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 23:09		
Methyl tert-butyl ether	"	ND	----	0.00192	"	"	"	"	"		
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			147%	70 - 140 %	"				ZX	
	<i>Toluene-d8</i>			122%	70 - 130 %	"					
	<i>4-BFB</i>			135%	70 - 130 %	"				I2, ZX	
BSC0295-02 (Area-2-F6-14)		Soil		Sampled: 03/27/09 10:30							P13
Benzene	EPA 8260B	0.0847	----	0.00116	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 22:44		
Methyl tert-butyl ether	"	ND	----	0.000772	"	"	"	"	"		
Naphthalene	"	0.126	----	0.00772	"	"	"	"	"		
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			140%	70 - 140 %	"					
	<i>Toluene-d8</i>			107%	70 - 130 %	"					
	<i>4-BFB</i>			104%	70 - 130 %	"					
BSC0295-04 (Area-2-E9-14)		Soil		Sampled: 03/27/09 11:10							I2
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00301	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 21:53		
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			140%	70 - 140 %	"					
	<i>Toluene-d8</i>			115%	70 - 130 %	"					
	<i>4-BFB</i>			119%	70 - 130 %	"					
BSC0295-05 (Area-2-E8-14)		Soil		Sampled: 03/27/09 11:25							
Benzene	EPA 8260B	0.0847	----	0.00163	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 21:27		
Methyl tert-butyl ether	"	ND	----	0.00108	"	"	"	"	"		
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			137%	70 - 140 %	"					
	<i>Toluene-d8</i>			118%	70 - 130 %	"				I2	
	<i>4-BFB</i>			117%	70 - 130 %	"				I2	
BSC0295-06 (Area-2-E7-14)		Soil		Sampled: 03/27/09 11:50							I2
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00414	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 21:02		
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			138%	70 - 140 %	"					
	<i>Toluene-d8</i>			123%	70 - 130 %	"					
	<i>4-BFB</i>			127%	70 - 130 %	"					

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSC0295-07 (Area-2-E6-14)		Soil		Sampled: 03/27/09 12:10							12
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00449	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 20:36		
Naphthalene	"	ND	----	0.0449	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				145%	70 - 140 %	"				ZX	
<i>Toluene-d8</i>				113%	70 - 130 %	"					
<i>4-BFB</i>				111%	70 - 130 %	"					
BSC0295-08 (Area-2-F10-14)		Soil		Sampled: 03/27/09 12:30							
Benzene	EPA 8260B	ND	----	0.00207	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 20:11		
Ethylbenzene	"	ND	----	0.00553	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.00138	"	"	"	"	"		
Naphthalene	"	ND	----	0.0138	"	"	"	"	"		
Toluene	"	ND	----	0.00207	"	"	"	"	"		
o-Xylene	"	ND	----	0.00691	"	"	"	"	"		
m,p-Xylene	"	0.00755	----	0.00691	"	"	"	"	"		
Total Xylenes	"	ND	----	0.0138	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				131%	70 - 140 %	"					
<i>Toluene-d8</i>				102%	70 - 130 %	"					
<i>4-BFB</i>				108%	70 - 130 %	"					
BSC0295-09 (Area-2-E10-14)		Soil		Sampled: 03/27/09 12:55							12
Benzene	EPA 8260B	ND	----	0.00708	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 19:45		
<i>Surrogate(s): 1,2-DCA-d4</i>				136%	70 - 140 %	"					
<i>Toluene-d8</i>				125%	70 - 130 %	"					
<i>4-BFB</i>				125%	70 - 130 %	"					
BSC0295-10 (Area-2-E5-14)		Soil		Sampled: 03/27/09 14:05							
Benzene	EPA 8260B	0.0174	----	0.00152	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 19:20		
Ethylbenzene	"	0.122	----	0.00406	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.00102	"	"	"	"	"		
Naphthalene	"	0.0947	----	0.0102	"	"	"	"	"		
Toluene	"	0.0292	----	0.00152	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				138%	70 - 140 %	"					
<i>Toluene-d8</i>				103%	70 - 130 %	"					
<i>4-BFB</i>				103%	70 - 130 %	"					

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-11 (Area-2-D5-14)	Soil		Sampled: 03/27/09 14:30							
Benzene	EPA 8260B	0.00815	----	0.00103	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 18:54	
Methyl tert-butyl ether	"	ND	----	0.000686	"	"	"	"	"	"
Naphthalene	"	0.137	----	0.00686	"	"	"	"	"	"
Toluene	"	0.0309	----	0.00103	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>134%</i>		<i>70 - 140 %</i>	"				"
	<i>Toluene-d8</i>		<i>101%</i>		<i>70 - 130 %</i>	"				"
	<i>4-BFB</i>		<i>105%</i>		<i>70 - 130 %</i>	"				"
BSC0295-12 (DUP-2)	Soil		Sampled: 03/27/09 12:00							
Benzene	EPA 8260B	0.00514	----	0.00132	mg/kg dry	1x	9C27017	03/27/09 16:30	03/27/09 18:29	
Ethylbenzene	"	0.0454	----	0.00353	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.000883	"	"	"	"	"	"
Naphthalene	"	0.0499	----	0.00883	"	"	"	"	"	"
Toluene	"	0.00842	----	0.00132	"	"	"	"	"	"
o-Xylene	"	0.123	----	0.00442	"	"	"	"	"	"
m,p-Xylene	"	0.256	----	0.00442	"	"	"	"	"	"
Total Xylenes	"	0.379	----	0.00883	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>141%</i>		<i>70 - 140 %</i>	"				"
	<i>Toluene-d8</i>		<i>104%</i>		<i>70 - 130 %</i>	"				"
	<i>4-BFB</i>		<i>97.4%</i>		<i>70 - 130 %</i>	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSC0295-01 (Area-2-F5-14) Soil Sampled: 03/27/09 10:50

Ethylbenzene	EPA 8260B	1.95	----	0.357	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 18:15	
Naphthalene	"	ND	----	7.13	"	"	"	"	"	"
Toluene	"	0.906	----	0.357	"	"	"	"	"	"
o-Xylene	"	1.83	----	0.357	"	"	"	"	"	"
m,p-Xylene	"	5.75	----	0.713	"	"	"	"	"	"
Xylenes (total)	"	7.58	----	1.07	"	"	"	"	"	"

Surrogate(s):	1,2-DCA-d4	104%		75 - 125 %	"					"
	Toluene-d8	88.5%		75 - 125 %	"					"
	4-BFB	96.9%		75 - 125 %	"					"

BSC0295-02 (Area-2-F6-14) Soil Sampled: 03/27/09 10:30

Ethylbenzene	EPA 8260B	3.20	----	0.206	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 18:42	
Toluene	"	1.64	----	0.206	"	"	"	"	"	"
o-Xylene	"	3.26	----	0.206	"	"	"	"	"	"
m,p-Xylene	"	10.4	----	0.413	"	"	"	"	"	"
Xylenes (total)	"	13.7	----	0.619	"	"	"	"	"	"

Surrogate(s):	1,2-DCA-d4	107%		75 - 125 %	"					"
	Toluene-d8	92.4%		75 - 125 %	"					"
	4-BFB	96.8%		75 - 125 %	"					"

BSC0295-03 (Area-2-F7-14) Soil Sampled: 03/27/09 10:15

Benzene	EPA 8260B	ND	----	0.181	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 19:09	
Ethylbenzene	"	ND	----	0.906	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.453	"	"	"	"	"	"
Naphthalene	"	ND	----	18.1	"	"	"	"	"	"
Toluene	"	ND	----	0.906	"	"	"	"	"	"
o-Xylene	"	ND	----	0.906	"	"	"	"	"	"
m,p-Xylene	"	ND	----	1.81	"	"	"	"	"	"
Xylenes (total)	"	ND	----	2.72	"	"	"	"	"	"

Surrogate(s):	1,2-DCA-d4	101%		75 - 125 %	"					"
	Toluene-d8	92.6%		75 - 125 %	"					"
	4-BFB	99.6%		75 - 125 %	"					"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-04 (Area-2-E9-14)		Soil			Sampled: 03/27/09 11:10					
Benzene	EPA 8260B	0.161	----	0.124	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 19:35	
Ethylbenzene	"	1.15	----	0.621	"	"	"	"	"	
Naphthalene	"	ND	----	12.4	"	"	"	"	"	
Toluene	"	ND	----	0.621	"	"	"	"	"	
o-Xylene	"	0.652	----	0.621	"	"	"	"	"	
m,p-Xylene	"	3.65	----	1.24	"	"	"	"	"	
Xylenes (total)	"	4.31	----	1.86	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			99.6%		75 - 125 %	"				"
<i>Toluene-d8</i>			92.6%		75 - 125 %	"				"
<i>4-BFB</i>			100%		75 - 125 %	"				"
BSC0295-05 (Area-2-E8-14)		Soil			Sampled: 03/27/09 11:25					
Ethylbenzene	EPA 8260B	1.14	----	0.232	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 20:02	
Naphthalene	"	ND	----	4.63	"	"	"	"	"	
Toluene	"	0.320	----	0.232	"	"	"	"	"	
o-Xylene	"	0.975	----	0.232	"	"	"	"	"	
m,p-Xylene	"	4.16	----	0.463	"	"	"	"	"	
Xylenes (total)	"	5.14	----	0.695	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			99.6%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.3%		75 - 125 %	"				"
<i>4-BFB</i>			100%		75 - 125 %	"				"
BSC0295-06 (Area-2-E7-14)		Soil			Sampled: 03/27/09 11:50					
Benzene	EPA 8260B	0.237	----	0.163	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 20:29	
Ethylbenzene	"	ND	----	0.816	"	"	"	"	"	
Naphthalene	"	ND	----	16.3	"	"	"	"	"	
Toluene	"	ND	----	0.816	"	"	"	"	"	
o-Xylene	"	ND	----	0.816	"	"	"	"	"	
m,p-Xylene	"	2.71	----	1.63	"	"	"	"	"	
Xylenes (total)	"	3.43	----	2.45	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			102%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.4%		75 - 125 %	"				"
<i>4-BFB</i>			100%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSC0295-07 (Area-2-E6-14) Soil Sampled: 03/27/09 12:10

Benzene	EPA 8260B	0.648	----	0.166	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 20:56	
Ethylbenzene	"	ND	----	0.831	"	"	"	"	"	
Toluene	"	ND	----	0.831	"	"	"	"	"	
o-Xylene	"	ND	----	0.831	"	"	"	"	"	
m,p-Xylene	"	ND	----	1.66	"	"	"	"	"	
Xylenes (total)	"	ND	----	2.49	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			100%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.0%		75 - 125 %	"				"
<i>4-BFB</i>			100%		75 - 125 %	"				"

BSC0295-09 (Area-2-E10-14) Soil Sampled: 03/27/09 12:55

Ethylbenzene	EPA 8260B	ND	----	0.977	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 21:49	
Methyl tert-butyl ether	"	ND	----	0.489	"	"	"	"	"	
Naphthalene	"	ND	----	19.5	"	"	"	"	"	
Toluene	"	ND	----	0.977	"	"	"	"	"	
o-Xylene	"	ND	----	0.977	"	"	"	"	"	
m,p-Xylene	"	ND	----	1.95	"	"	"	"	"	
Xylenes (total)	"	ND	----	2.93	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			95.8%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.2%		75 - 125 %	"				"
<i>4-BFB</i>			97.2%		75 - 125 %	"				"

BSC0295-10 (Area-2-E5-14) Soil Sampled: 03/27/09 14:05

o-Xylene	EPA 8260B	0.781	----	0.151	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 22:16	
m,p-Xylene	"	2.33	----	0.302	"	"	"	"	"	
Xylenes (total)	"	3.11	----	0.453	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			96.6%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.3%		75 - 125 %	"				"
<i>4-BFB</i>			98.6%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-11 (Area-2-D5-14)		Soil			Sampled: 03/27/09 14:30					
Ethylbenzene	EPA 8260B	1.96	----	0.117	mg/kg dry	1x	9C27013	03/27/09 15:00	03/27/09 22:43	
o-Xylene	"	1.07	----	0.117	"	"	"	"	"	"
m,p-Xylene	"	4.07	----	0.234	"	"	"	"	"	"
Xylenes (total)	"	5.14	----	0.351	"	"	"	"	"	"
Surrogate(s):	1,2-DCA-d4		99.3%		75 - 125 %	"				"
	Toluene-d8		94.5%		75 - 125 %	"				"
	4-BFB		96.4%		75 - 125 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-01 (Area-2-F5-14)		Soil								Sampled: 03/27/09 10:50
Dry Weight	BSOPSPLO03R0 8	42.7	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-02 (Area-2-F6-14)		Soil								Sampled: 03/27/09 10:30
Dry Weight	BSOPSPLO03R0 8	54.9	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-03 (Area-2-F7-14)		Soil								Sampled: 03/27/09 10:15
Dry Weight	BSOPSPLO03R0 8	24.2	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-04 (Area-2-E9-14)		Soil								Sampled: 03/27/09 11:10
Dry Weight	BSOPSPLO03R0 8	31.8	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-05 (Area-2-E8-14)		Soil								Sampled: 03/27/09 11:25
Dry Weight	BSOPSPLO03R0 8	57.6	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-06 (Area-2-E7-14)		Soil								Sampled: 03/27/09 11:50
Dry Weight	BSOPSPLO03R0 8	26.0	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-07 (Area-2-E6-14)		Soil								Sampled: 03/27/09 12:10
Dry Weight	BSOPSPLO03R0 8	26.0	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-08 (Area-2-F10-14)		Soil								Sampled: 03/27/09 12:30
Dry Weight	BSOPSPLO03R0 8	70.5	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-09 (Area-2-E10-14)		Soil								Sampled: 03/27/09 12:55
Dry Weight	BSOPSPLO03R0 8	21.7	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-10 (Area-2-E5-14)		Soil								Sampled: 03/27/09 14:05
Dry Weight	BSOPSPLO03R0 8	75.6	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-11 (Area-2-D5-14)		Soil								Sampled: 03/27/09 14:30

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0295-11 (Area-2-D5-14)		Soil		Sampled: 03/27/09 14:30						
Dry Weight	BSOPSP003R0 8	82.8	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	
BSC0295-12 (DUP-2)		Soil		Sampled: 03/27/09 12:00						
Dry Weight	BSOPSP003R0 8	74.8	----	1.00	%	1x	9C27026	03/27/09 16:50	03/30/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C27031 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C27031-BLK1)										Extracted: 03/27/09 13:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/27/09 14:41	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.2%</i>		<i>Limits: 80-140%</i>		<i>"</i>							<i>03/27/09 14:41</i>	
LCS (9C27031-BS1)										Extracted: 03/27/09 13:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	50.7	---	5.00	mg/kg wet	1x	--	50.0	101%	(80-120)	--	--	03/27/09 15:13	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 80-140%</i>		<i>"</i>							<i>03/27/09 15:13</i>	
Duplicate (9C27031-DUP1)										QC Source: BSC0295-03		Extracted: 03/27/09 13:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	45.3	mg/kg dry	1x	ND	--	--	--	47.1% (40)		03/27/09 19:21	R4
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 159%</i>		<i>Limits: 80-140%</i>		<i>"</i>							<i>03/27/09 19:21</i>	ZX
Duplicate (9C27031-DUP2)										QC Source: BSC0295-04		Extracted: 03/27/09 13:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	82.4	---	31.0	mg/kg dry	1x	82.4	--	--	--	0.0113% (40)		03/27/09 20:25	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 154%</i>		<i>Limits: 80-140%</i>		<i>"</i>							<i>03/27/09 20:25</i>	ZX
Matrix Spike (9C27031-MS1)										QC Source: BSC0295-03		Extracted: 03/27/09 13:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	464	---	45.3	mg/kg dry	1x	23.1	296	149%	(75-130)	--	--	03/27/09 22:32	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 166%</i>		<i>Limits: 80-140%</i>		<i>"</i>							<i>03/27/09 22:32</i>	ZX

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 03/30/09 13:49

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C27025 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9C27025-BLK1)													Extracted: 03/27/09 16:49			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/27/09 19:49			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/27/09 19:49</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
LCS (9C27025-BS1)													Extracted: 03/27/09 16:49			
Lube Oil	NWTPH-Dx	58.6	---	25.0	mg/kg wet	1x	--	66.7	87.8%	(63-125)	--	--	03/27/09 20:11			
Diesel Range Hydrocarbons	"	66.2	---	10.0	"	"	--	"	99.4%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/27/09 20:11</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>112%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9C27025-DUP1)													QC Source: BSC0295-10		Extracted: 03/27/09 16:49	
Lube Oil	NWTPH-Dx	65.8	---	33.1	mg/kg dry	1x	85.0	--	--	--	25.5%	(50)	03/27/09 20:34			
Kerosene	"	18.1	---	13.2	"	"	29.8	--	--	--	48.9%	"	"			
Diesel Range Hydrocarbons	"	34.1	---	13.2	"	"	56.6	--	--	--	49.5%	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/27/09 20:34</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9C27025-DUP2)													QC Source: BSC0295-03		Extracted: 03/27/09 16:49	
Lube Oil	NWTPH-Dx	ND	---	103	mg/kg dry	1x	ND	--	--	--	86.4%	(50)	03/27/09 20:57	R4		
Kerosene	"	ND	---	41.3	"	"	ND	--	--	--	14.8%	"	"			
Diesel Range Hydrocarbons	"	162	---	41.3	"	"	98.4	--	--	--	49.1%	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/27/09 20:57</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9C27025-MS1)													QC Source: BSC0295-10		Extracted: 03/27/09 16:49	
Lube Oil	NWTPH-Dx	120	---	33.1	mg/kg dry	1x	85.0	88.2	39.6%	(26-150)	--	--	03/27/09 21:19			
Diesel Range Hydrocarbons	"	105	---	13.2	"	"	56.6	"	55.0%	(46-155)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/27/09 21:19</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C27035 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C27035-BLK1)								Extracted: 03/27/09 19:25						
Lead	EPA 6020	ND	---	0.505	mg/kg wet	1x	--	--	--	--	--	--	03/30/09 08:57	
LCS (9C27035-BS1)								Extracted: 03/27/09 19:25						
Lead	EPA 6020	43.2	---	0.521	mg/kg wet	1x	--	41.7	104%	(80-120)	--	--	03/30/09 09:04	
Duplicate (9C27035-DUP1)				QC Source: BSC0295-05				Extracted: 03/27/09 19:25						
Lead	EPA 6020	37.4	---	0.827	mg/kg dry	1x	48.5	--	--	--	25.8% (20)	--	03/30/09 09:23	R3
Matrix Spike (9C27035-MS1)				QC Source: BSC0295-05				Extracted: 03/27/09 19:25						
Lead	EPA 6020	105	---	0.843	mg/kg dry	1x	48.5	67.5	84.4%	(75-125)	--	--	03/30/09 09:17	
Post Spike (9C27035-PS1)				QC Source: BSC0295-05				Extracted: 03/27/09 19:25						
Lead	EPA 6020	0.161	---		ug/ml	1x	0.0575	0.100	103%	(80-120)	--	--	03/30/09 09:10	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 03/30/09 13:49

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C27017 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C27017-BLK1)													Extracted: 03/27/09 16:30	
Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	03/27/09 17:50	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	03/30/09 13:49

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C27017 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C27017-BLK1)													Extracted: 03/27/09 16:30	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	03/27/09 17:50	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 135%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>03/27/09 17:50</i>	
<i>Toluene-d8</i>		<i>98.8%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C27017 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9C27017-BS1)													Extracted: 03/27/09 16:30	
Acetone	EPA 8260B	0.566	---	0.0400	mg/kg wet	1x	--	0.500	113%	(60-140)	--	--	03/27/09 16:59	
Benzene	"	0.0521	---	0.00150	"	"	--	0.0500	104%	(70-125)	--	--	"	
2-Butanone	"	0.557	---	0.0300	"	"	--	0.500	111%	(60-140)	--	--	"	
Carbon disulfide	"	0.0518	---	0.00300	"	"	--	0.0500	104%	(70-130)	--	--	"	
Chlorobenzene	"	0.0486	---	0.00200	"	"	--	"	97.2%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0567	---	0.00200	"	"	--	"	113%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0590	---	0.00300	"	"	--	"	118%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0546	---	0.00300	"	"	--	"	109%	(75-125)	--	--	"	
Ethylbenzene	"	0.0515	---	0.00400	"	"	--	"	103%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0542	---	0.0100	"	"	--	"	108%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.492	---	0.0300	"	"	--	0.500	98.4%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0507	---	0.00200	"	"	--	0.0500	101%	(70-125)	--	--	"	
Toluene	"	0.0527	---	0.00150	"	"	--	"	105%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0566	---	0.00250	"	"	--	"	113%	(70-130)	--	--	"	
Trichloroethene	"	0.0513	---	0.00250	"	"	--	"	103%	(70-125)	--	--	"	
Total Xylenes	"	0.153	---	0.0100	"	"	--	0.150	102%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 104%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>03/27/09 16:59</i>		
<i>Toluene-d8</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>99.4%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9C27017-BSD1)													Extracted: 03/27/09 16:30	
Acetone	EPA 8260B	0.579	---	0.0400	mg/kg wet	1x	--	0.500	116%	(60-140)	2.27% (30)		03/27/09 17:24	
Benzene	"	0.0494	---	0.00150	"	"	--	0.0500	98.8%	(70-125)	5.42%	"	"	
2-Butanone	"	0.597	---	0.0300	"	"	--	0.500	119%	(60-140)	6.90%	"	"	
Carbon disulfide	"	0.0466	---	0.00300	"	"	--	0.0500	93.3%	(70-130)	10.4%	"	"	
Chlorobenzene	"	0.0470	---	0.00200	"	"	--	"	93.9%	(70-125)	3.45%	"	"	
1,1-Dichloroethane	"	0.0531	---	0.00200	"	"	--	"	106%	(75-125)	6.58%	"	"	
1,1-Dichloroethene	"	0.0536	---	0.00300	"	"	--	"	107%	(70-130)	9.72%	"	"	
cis-1,2-Dichloroethene	"	0.0512	---	0.00300	"	"	--	"	102%	(75-125)	6.41%	"	"	
Ethylbenzene	"	0.0486	---	0.00400	"	"	--	"	97.2%	(70-125)	5.80%	"	"	
Hexachlorobutadiene	"	0.0494	---	0.0100	"	"	--	"	98.8%	(70-130)	9.34%	"	"	
4-Methyl-2-pentanone	"	0.548	---	0.0300	"	"	--	0.500	110%	(60-140)	10.7%	"	"	
Tetrachloroethene	"	0.0460	---	0.00200	"	"	--	0.0500	92.0%	(70-125)	9.74%	"	"	
Toluene	"	0.0496	---	0.00150	"	"	--	"	99.1%	"	6.10%	"	"	
1,1,1-Trichloroethane	"	0.0524	---	0.00250	"	"	--	"	105%	(70-130)	7.78%	"	"	
Trichloroethene	"	0.0483	---	0.00250	"	"	--	"	96.5%	(70-125)	6.07%	"	"	
Total Xylenes	"	0.142	---	0.0100	"	"	--	0.150	94.4%	(70-130)	7.87%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 110%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>03/27/09 17:24</i>		
<i>Toluene-d8</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9C27017

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9C27017-BSD1)

Extracted: 03/27/09 16:30

Surrogate(s): 4-BFB

Recovery: 102%

Limits: 70-130% 1x

03/27/09 17:24

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/30/09 13:49
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C27013 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C27013-BLK1)													Extracted: 03/27/09 15:00	
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	03/27/09 17:46	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>93.0%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/27/09 17:46</i>	
<i>Toluene-d8</i>			<i>92.4%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>96.4%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9C27013-BS1)													Extracted: 03/27/09 15:00	
Benzene	EPA 8260B	3.81	---	0.0200	mg/kg wet	1x	--	4.00	95.3%	(75-125)	--	--	03/27/09 16:18	
Ethylbenzene	"	3.50	---	0.100	"	"	--	"	87.6%	"	--	--	"	
Methyl tert-butyl ether	"	4.31	---	0.0500	"	"	--	"	108%	"	--	--	"	
Naphthalene	"	4.47	---	2.00	"	"	--	"	112%	(60-140)	--	--	"	
Toluene	"	3.37	---	0.100	"	"	--	"	84.2%	(75-125)	--	--	"	
o-Xylene	"	3.29	---	0.100	"	"	--	"	82.4%	"	--	--	"	
m,p-Xylene	"	6.74	---	0.200	"	"	--	8.00	84.3%	"	--	--	"	
Xylenes (total)	"	10.0	---	0.300	"	"	--	12.0	83.6%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/27/09 16:18</i>	
<i>Toluene-d8</i>			<i>86.5%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>95.8%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9C27013-BSD1)													Extracted: 03/27/09 15:00	
Benzene	EPA 8260B	3.77	---	0.0200	mg/kg wet	1x	--	4.00	94.2%	(75-125)	1.13%	(20)	03/27/09 16:45	
Ethylbenzene	"	3.51	---	0.100	"	"	--	"	87.7%	"	0.143%	"	"	
Methyl tert-butyl ether	"	4.27	---	0.0500	"	"	--	"	107%	"	0.886%	"	"	
Naphthalene	"	4.22	---	2.00	"	"	--	"	106%	(60-140)	5.78%	"	"	
Toluene	"	3.43	---	0.100	"	"	--	"	85.8%	(75-125)	1.94%	"	"	
o-Xylene	"	3.35	---	0.100	"	"	--	"	83.8%	"	1.72%	"	"	
m,p-Xylene	"	6.76	---	0.200	"	"	--	8.00	84.5%	"	0.252%	"	"	
Xylenes (total)	"	10.1	---	0.300	"	"	--	12.0	84.2%	"	0.735%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/27/09 16:45</i>	
<i>Toluene-d8</i>			<i>91.8%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>95.6%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	03/30/09 13:49
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C27026 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C27026-BLK1)										Extracted: 03/27/09 16:50				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	03/30/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/30/09 13:49

Notes and Definitions

Report Specific Notes:

- I2 - Internal Standard recovery was outside of method limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q3 - The chromatographic pattern is not consistent with diesel fuel.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA10295**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST		
REPORT TO: WMC P Staff		P.O. NUMBER:		<input type="checkbox"/> 10 STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Organic & Inorganic Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> OTHER Specify: 24 hr		
PHONE:		PROJECT NAME: WMC P		* Turnaround Requests less than standard may incur Rush Charges.		
PROJECT NUMBER:		PRESERVATIVE		MATRIX (W, S, O)		
SAMPLED BY: Matthew McKibbin		REQUESTED ANALYSES		# OF CONT.		
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DX (Prel/Site)	W/TPH	W/TPH	LOCATION/ COMMENTS	TA WO ID
1. Area2-F5-14	3-27-09 / 1050	X	X	X	SHEEN OBSERVED PID = 12.2 ppm	01
2. " F6-14	" / 1030	X	X	X	SHEEN OBSERVED 11 12.8 ppm	02
3. " F7-14	" / 1015	X	X	X	HIGH WOOD CONTENT 11 3.5 ppm	03
4. " E9-14	" / 1110	X	X	X	HIGH WOOD CONTENT 11 4.1 ppm	04
5. " E8-14	" / 1125	X	X	X	11 8.7 ppm HIGH WOOD CONT	05
6. " E7-14	" / 1150	X	X	X	11 5.6 ppm HIGH WOOD CONT	06
7. " E6-14	" / 1210	X	X	X	11 5.9 ppm	07
8. " F10-14	" / 1230	X	X	X	11 2.9 ppm	08
9. " E10-14	" / 1255	X	X	X	HIGH WOOD CONT 11 3.8 ppm	09
10. " E5-14	" / 1405	X	X	X	11 2.6 ppm	10
RELEASED BY: [Signature]		DATE: 3/27/09		RECEIVED BY: [Signature]		
PRINT NAME: MATTHEW MCKIBBIN		FIRM: WAS		PRINT NAME: Tom D. [Signature]		
FIRM: WAS		DATE: 1445		FIRM: TA-S		
RECEIVED BY:		DATE:		DATE:		
PRINT NAME:		TIME:		TIME:		
FIRM:		FIRM:		FIRM:		
ADDITIONAL REMARKS:		TEMP: 4.0		PAGE 1 OF 2		
* W/ MTBE + NAPHTHALENE		@ Lab 1545		w/c		

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or **N**

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:

(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 3/27

Date: 3/27

Date: 3/27

Work Order No. BAP0295

Time: 1545

Time: 16:07

Time: 16:45

Client: _____

Initials: TB/CL

Initials: CL

Initials: CL/PT

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler
 Box
 None/Other _____

Ship Container
 On Bottles
 None
 Sign By _____
 Date _____

Bubble Bags
 Foam Packs
 Styrofoam
 None/Other _____

Refrigerant:

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Received Via: Bill#

Fed Ex
 UPS
 DHL
 Senvoy
 GS
 Client
 TA Courier
 Mid Valley
 TDP
 Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 4.0 °C or NA

Trip Blank? Y or **N** or NA

BP, OPLC, ARCO - Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

Intact? **Y** or N
Provided by TA? **Y** or N
Correct Type? **Y** or N
#Containers match COC? **Y** or N
IDs/time/date match COC? **Y** or N
Hold Times in hold? **Y** or N

ID
Metals Preserved? Y or N or **NA**
Client QAPP Preserved? Y or N or **NA**
Adequate Volume? **Y** or N
(for tests requested)
Water VOAs: Headspace? Y or N or **NA**
Comments: _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Has client been contacted regarding non-conformances?

Y or N
Y or N If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

March 31, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 03/30/09 16:05.
The following list is a summary of the Work Orders contained in this report, generated on 03/31/09
17:16.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0309	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/31/09 17:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA 2-D6-14	BSC0309-01	Soil	03/30/09 13:40	03/30/09 16:05
AREA 2-D7-14	BSC0309-02	Soil	03/30/09 14:00	03/30/09 16:05
AREA 2-D8-14	BSC0309-03	Soil	03/30/09 14:20	03/30/09 16:05
AREA 2-D9-14	BSC0309-04	Soil	03/30/09 14:30	03/30/09 16:05

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/31/09 17:16

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0309-01 (AREA 2-D6-14)		Soil		Sampled: 03/30/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	76.9	----	17.1	mg/kg dry	1x	9C30042	03/30/09 16:00	03/30/09 20:15	
Surrogate(s): 4-BFB (FID)			167%		80 - 140 %	"			"	ZX
BSC0309-02 (AREA 2-D7-14)		Soil		Sampled: 03/30/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	117	----	20.6	mg/kg dry	1x	9C30042	03/30/09 16:00	03/30/09 20:47	
Surrogate(s): 4-BFB (FID)			166%		80 - 140 %	"			"	ZX
BSC0309-03 (AREA 2-D8-14)		Soil		Sampled: 03/30/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	45.8	mg/kg dry	1x	9C30042	03/30/09 16:00	03/30/09 19:10	
Surrogate(s): 4-BFB (FID)			156%		80 - 140 %	"			"	ZX
BSC0309-04 (AREA 2-D9-14)		Soil		Sampled: 03/30/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	39.2	mg/kg dry	1x	9C30042	03/30/09 16:00	03/30/09 19:43	
Surrogate(s): 4-BFB (FID)			147%		80 - 140 %	"			"	ZX

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/31/09 17:16

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0309-01 (AREA 2-D6-14)		Soil		Sampled: 03/30/09 13:40						
Lube Oil	NWTPH-Dx	ND	----	56.8	mg/kg dry	1x	9C30045	03/30/09 18:01	03/30/09 20:12	
Kerosene	"	ND	----	22.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	22.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			99.1%		54 - 148 %	"				"
<i>Octacosane</i>			116%		62 - 142 %	"				"
BSC0309-02 (AREA 2-D7-14)		Soil		Sampled: 03/30/09 14:00						
Lube Oil	NWTPH-Dx	ND	----	58.4	mg/kg dry	1x	9C30045	03/30/09 18:01	03/30/09 20:35	
Kerosene	"	ND	----	23.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	29.1	----	23.3	"	"	"	"	"	Q3
<i>Surrogate(s): 2-FBP</i>			103%		54 - 148 %	"				"
<i>Octacosane</i>			115%		62 - 142 %	"				"
BSC0309-03 (AREA 2-D8-14)		Soil		Sampled: 03/30/09 14:20						
Lube Oil	NWTPH-Dx	ND	----	107	mg/kg dry	1x	9C30045	03/30/09 18:01	03/30/09 20:57	
Kerosene	"	ND	----	43.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	43.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			103%		54 - 148 %	"				"
<i>Octacosane</i>			117%		62 - 142 %	"				"
BSC0309-04 (AREA 2-D9-14)		Soil		Sampled: 03/30/09 14:30						
Lube Oil	NWTPH-Dx	ND	----	89.6	mg/kg dry	1x	9C30045	03/30/09 18:01	03/30/09 21:20	
Kerosene	"	ND	----	35.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	35.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			101%		54 - 148 %	"				"
<i>Octacosane</i>			118%		62 - 142 %	"				"

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Kate Haney, Project Manager

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/31/09 17:16

Total Metals by EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0309-01 (AREA 2-D6-14)		Soil		Sampled: 03/30/09 13:40						
Lead	EPA 6020	18.0	----	0.824	mg/kg dry	1x	9C31002	03/31/09 05:37	03/31/09 10:50	
BSC0309-02 (AREA 2-D7-14)		Soil		Sampled: 03/30/09 14:00						
Lead	EPA 6020	41.7	----	0.813	mg/kg dry	1x	9C31002	03/31/09 05:37	03/31/09 10:57	
BSC0309-03 (AREA 2-D8-14)		Soil		Sampled: 03/30/09 14:20						
Lead	EPA 6020	98.2	----	2.00	mg/kg dry	1x	9C31002	03/31/09 05:37	03/31/09 11:23	
BSC0309-04 (AREA 2-D9-14)		Soil		Sampled: 03/30/09 14:30						
Lead	EPA 6020	87.4	----	1.46	mg/kg dry	1x	9C31002	03/31/09 05:37	03/31/09 11:29	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/31/09 17:16
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0309-01 (AREA 2-D6-14)		Soil			Sampled: 03/30/09 13:40					
Ethylbenzene	EPA 8260B	0.312	----	0.00773	mg/kg dry	1x	9C30026	03/30/09 16:00	03/30/09 17:34	
<i>Surrogate(s): 1,2-DCA-d4</i>				136%		70 - 140 %	"			"
<i>Toluene-d8</i>				115%		70 - 130 %	"			"
<i>4-BFB</i>				110%		70 - 130 %	"			" I2
BSC0309-01RE1 (AREA 2-D6-14)		Soil			Sampled: 03/30/09 13:40					
Benzene	EPA 8260B	0.0657	----	0.00280	mg/kg dry	1x	9C30026	03/30/09 16:00	03/30/09 17:59	
Methyl tert-butyl ether	"	ND	----	0.00187	"	"	"	"	"	C
Naphthalene	"	0.171	----	0.0187	"	"	"	"	"	
Toluene	"	0.183	----	0.00280	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				133%		70 - 140 %	"			"
<i>Toluene-d8</i>				111%		70 - 130 %	"			"
<i>4-BFB</i>				112%		70 - 130 %	"			"
BSC0309-02 (AREA 2-D7-14)		Soil			Sampled: 03/30/09 14:00					
Benzene	EPA 8260B	0.0619	----	0.00311	mg/kg dry	1x	9C30026	03/30/09 16:00	03/30/09 18:25	
Methyl tert-butyl ether	"	ND	----	0.00207	"	"	"	"	"	C
Toluene	"	0.204	----	0.00311	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				133%		70 - 140 %	"			"
<i>Toluene-d8</i>				120%		70 - 130 %	"			"
<i>4-BFB</i>				119%		70 - 130 %	"			" I
BSC0309-03 (AREA 2-D8-14)		Soil			Sampled: 03/30/09 14:20					
Benzene	EPA 8260B	0.0730	----	0.00573	mg/kg dry	1x	9C30026	03/30/09 16:00	03/30/09 19:16	
Ethylbenzene	"	0.272	----	0.0153	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00382	"	"	"	"	"	C
Toluene	"	0.162	----	0.00573	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				137%		70 - 140 %	"			"
<i>Toluene-d8</i>				128%		70 - 130 %	"			"
<i>4-BFB</i>				130%		70 - 130 %	"			" I

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Kate Haney

Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/31/09 17:16

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0309-04 (AREA 2-D9-14)		Soil		Sampled: 03/30/09 14:30						
Benzene	EPA 8260B	0.0205	----	0.00514	mg/kg dry	1x	9C30026	03/30/09 16:00	03/30/09 20:07	
Ethylbenzene	"	0.144	----	0.0137	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00343	"	"	"	"	"	C
Toluene	"	0.0563	----	0.00514	"	"	"	"	"	
<hr/>										
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>134%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
	<i>Toluene-d8</i>		<i>123%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
	<i>4-BFB</i>		<i>122%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I</i>

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/31/09 17:16

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0309-01 (AREA 2-D6-14)		Soil		Sampled: 03/30/09 13:40						
o-Xylene	EPA 8260B	0.663	----	0.342	mg/kg dry	1x	9C30023	03/30/09 16:20	03/30/09 17:48	
m,p-Xylene	"	2.16	----	0.683	"	"	"	"	"	
Xylenes (total)	"	2.82	----	1.02	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		98.8%		75 - 125 %	"				"
	Toluene-d8		89.4%		75 - 125 %	"				"
	4-BFB		98.4%		75 - 125 %	"				"
BSC0309-02 (AREA 2-D7-14)		Soil		Sampled: 03/30/09 14:00						
Ethylbenzene	EPA 8260B	0.972	----	0.412	mg/kg dry	1x	9C30023	03/30/09 16:20	03/30/09 18:15	
Naphthalene	"	ND	----	8.23	"	"	"	"	"	
o-Xylene	"	0.996	----	0.412	"	"	"	"	"	
m,p-Xylene	"	3.05	----	0.823	"	"	"	"	"	
Xylenes (total)	"	4.05	----	1.23	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		101%		75 - 125 %	"				"
	Toluene-d8		88.6%		75 - 125 %	"				"
	4-BFB		99.0%		75 - 125 %	"				"
BSC0309-03 (AREA 2-D8-14)		Soil		Sampled: 03/30/09 14:20						
Naphthalene	EPA 8260B	ND	----	18.3	mg/kg dry	1x	9C30023	03/30/09 16:20	03/30/09 18:42	
o-Xylene	"	ND	----	0.917	"	"	"	"	"	
m,p-Xylene	"	ND	----	1.83	"	"	"	"	"	
Xylenes (total)	"	ND	----	2.75	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		100%		75 - 125 %	"				"
	Toluene-d8		90.8%		75 - 125 %	"				"
	4-BFB		98.1%		75 - 125 %	"				"
BSC0309-04 (AREA 2-D9-14)		Soil		Sampled: 03/30/09 14:30						
Naphthalene	EPA 8260B	ND	----	15.7	mg/kg dry	1x	9C30023	03/30/09 16:20	03/30/09 19:09	
o-Xylene	"	ND	----	0.784	"	"	"	"	"	
m,p-Xylene	"	ND	----	1.57	"	"	"	"	"	
Xylenes (total)	"	ND	----	2.35	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		102%		75 - 125 %	"				"
	Toluene-d8		89.6%		75 - 125 %	"				"
	4-BFB		97.6%		75 - 125 %	"				"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/31/09 17:16

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0309-01 (AREA 2-D6-14)		Soil								Sampled: 03/30/09 13:40
Dry Weight	BSOPSP003R0 8	43.3	----	1.00	%	1x	9C30046	03/30/09 18:02	03/31/09 00:00	
BSC0309-02 (AREA 2-D7-14)		Soil								Sampled: 03/30/09 14:00
Dry Weight	BSOPSP003R0 8	42.7	----	1.00	%	1x	9C30046	03/30/09 18:02	03/31/09 00:00	
BSC0309-03 (AREA 2-D8-14)		Soil								Sampled: 03/30/09 14:20
Dry Weight	BSOPSP003R0 8	22.9	----	1.00	%	1x	9C30046	03/30/09 18:02	03/31/09 00:00	
BSC0309-04 (AREA 2-D9-14)		Soil								Sampled: 03/30/09 14:30
Dry Weight	BSOPSP003R0 8	27.9	----	1.00	%	1x	9C30046	03/30/09 18:02	03/31/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/31/09 17:16
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C30042 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C30042-BLK1)

Extracted: 03/30/09 16:00

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/30/09 16:45	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.9%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/30/09 16:45</i>	

LCS (9C30042-BS1)

Extracted: 03/30/09 16:00

Gasoline Range Hydrocarbons	NWTPH-Gx	49.1	---	5.00	mg/kg wet	1x	--	50.0	98.2%	(80-120)	--	--	03/30/09 17:17	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/30/09 17:17</i>	

Duplicate (9C30042-DUP1)

QC Source: BSC0307-01

Extracted: 03/30/09 16:00

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	3.92	mg/kg wet	1x	ND	--	--	--	NR (40)	--	03/30/09 18:38	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/30/09 18:38</i>	

Matrix Spike (9C30042-MS1)

QC Source: BSC0307-01

Extracted: 03/30/09 16:00

Gasoline Range Hydrocarbons	NWTPH-Gx	38.4	---	3.92	mg/kg wet	1x	ND	39.2	97.9%	(75-130)	--	--	03/30/09 21:19	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.7%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>03/30/09 21:19</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/31/09 17:16
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C30045 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C30045-BLK1)

Extracted: 03/30/09 18:01

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/30/09 18:41	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/30/09 18:41</i>	
<i>Octacosane</i>			<i>117%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9C30045-BS1)

Extracted: 03/30/09 18:01

Lube Oil	NWTPH-Dx	60.4	---	25.0	mg/kg wet	1x	--	66.7	90.5%	(63-125)	--	--	03/30/09 19:03	
Diesel Range Hydrocarbons	"	68.1	---	10.0	"	"	--	"	102%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/30/09 19:03</i>	
<i>Octacosane</i>			<i>117%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9C30045-DUP1)

QC Source: BSC0309-03

Extracted: 03/30/09 18:01

Lube Oil	NWTPH-Dx	ND	---	109	mg/kg dry	1x	ND	--	--	--	56.7%	(50)	03/30/09 19:26	R4
Kerosene	"	ND	---	43.4	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	43.4	"	"	ND	--	--	--	47.9%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>97.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/30/09 19:26</i>	
<i>Octacosane</i>			<i>118%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9C30045-MS1)

QC Source: BSC0309-03

Extracted: 03/30/09 18:01

Lube Oil	NWTPH-Dx	298	---	109	mg/kg dry	1x	38.6	291	88.9%	(26-150)	--	--	03/30/09 19:49	
Diesel Range Hydrocarbons	"	301	---	43.7	"	"	17.1	"	97.4%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/30/09 19:49</i>	
<i>Octacosane</i>			<i>114%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/31/09 17:16
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31002-BLK1)								Extracted: 03/31/09 05:37						
Lead	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	03/31/09 10:18	
LCS (9C31002-BS1)								Extracted: 03/31/09 05:37						
Lead	EPA 6020	40.2	---	0.500	mg/kg wet	1x	--	40.0	101%	(80-120)	--	--	03/31/09 10:25	
Duplicate (9C31002-DUP1)				QC Source: BSC0309-01				Extracted: 03/31/09 05:37						
Lead	EPA 6020	20.6	---	0.881	mg/kg dry	1x	18.0	--	--	--	13.7% (20)	--	03/31/09 10:44	
Matrix Spike (9C31002-MS1)				QC Source: BSC0309-01				Extracted: 03/31/09 05:37						
Lead	EPA 6020	97.0	---	0.874	mg/kg dry	1x	18.0	69.9	113%	(75-125)	--	--	03/31/09 10:38	
Post Spike (9C31002-PS1)				QC Source: BSC0309-01				Extracted: 03/31/09 05:37						
Lead	EPA 6020	0.126	---		ug/ml	1x	0.0218	0.100	104%	(80-120)	--	--	03/31/09 10:31	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/31/09 17:16
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C30026 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C30026-BLK1)

Extracted: 03/30/09 12:38

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	03/30/09 15:24	C
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	C
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	C
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	C
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	C
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/31/09 17:16
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C30026 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C30026-BLK1)													Extracted: 03/30/09 12:38	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	03/30/09 15:24	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	C
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	C
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>134%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>							<i>03/30/09 15:24</i>	
	<i>Toluene-d8</i>		<i>97.1%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/31/09 17:16
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C30026 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9C30026-BS1)													Extracted: 03/30/09 12:38	
Acetone	EPA 8260B	0.587	---	0.0400	mg/kg wet	1x	--	0.500	117%	(60-140)	--	--	03/30/09 14:33	C8
Benzene	"	0.0492	---	0.00150	"	"	--	0.0500	98.4%	(70-125)	--	--	"	
2-Butanone	"	0.622	---	0.0300	"	"	--	0.500	124%	(60-140)	--	--	"	C8
Carbon disulfide	"	0.0472	---	0.00300	"	"	--	0.0500	94.4%	(70-130)	--	--	"	
Chlorobenzene	"	0.0465	---	0.00200	"	"	--	"	93.1%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0534	---	0.00200	"	"	--	"	107%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0545	---	0.00300	"	"	--	"	109%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0526	---	0.00300	"	"	--	"	105%	(75-125)	--	--	"	
Ethylbenzene	"	0.0482	---	0.00400	"	"	--	"	96.3%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0500	---	0.0100	"	"	--	"	99.9%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.532	---	0.0300	"	"	--	0.500	106%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0460	---	0.00200	"	"	--	0.0500	92.0%	(70-125)	--	--	"	
Toluene	"	0.0472	---	0.00150	"	"	--	"	94.5%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0534	---	0.00250	"	"	--	"	107%	(70-130)	--	--	"	
Trichloroethene	"	0.0488	---	0.00250	"	"	--	"	97.7%	(70-125)	--	--	"	
Total Xylenes	"	0.138	---	0.0100	"	"	--	0.150	92.2%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 112%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>03/30/09 14:33</i>		
<i>Toluene-d8</i>		<i>97.4%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9C30026-BSD1)													Extracted: 03/30/09 12:38	
Acetone	EPA 8260B	0.515	---	0.0400	mg/kg wet	1x	--	0.500	103%	(60-140)	13.1% (30)		03/30/09 14:58	C8
Benzene	"	0.0491	---	0.00150	"	"	--	0.0500	98.2%	(70-125)	0.224%	"	"	
2-Butanone	"	0.573	---	0.0300	"	"	--	0.500	115%	(60-140)	8.24%	"	"	C8
Carbon disulfide	"	0.0440	---	0.00300	"	"	--	0.0500	87.9%	(70-130)	7.11%	"	"	
Chlorobenzene	"	0.0476	---	0.00200	"	"	--	"	95.1%	(70-125)	2.19%	"	"	
1,1-Dichloroethane	"	0.0511	---	0.00200	"	"	--	"	102%	(75-125)	4.31%	"	"	
1,1-Dichloroethene	"	0.0506	---	0.00300	"	"	--	"	101%	(70-130)	7.44%	"	"	
cis-1,2-Dichloroethene	"	0.0507	---	0.00300	"	"	--	"	101%	(75-125)	3.72%	"	"	
Ethylbenzene	"	0.0490	---	0.00400	"	"	--	"	98.1%	(70-125)	1.83%	"	"	
Hexachlorobutadiene	"	0.0520	---	0.0100	"	"	--	"	104%	(70-130)	3.98%	"	"	
4-Methyl-2-pentanone	"	0.519	---	0.0300	"	"	--	0.500	104%	(60-140)	2.41%	"	"	
Tetrachloroethene	"	0.0480	---	0.00200	"	"	--	0.0500	96.0%	(70-125)	4.28%	"	"	
Toluene	"	0.0500	---	0.00150	"	"	--	"	100%	"	5.78%	"	"	
1,1,1-Trichloroethane	"	0.0506	---	0.00250	"	"	--	"	101%	(70-130)	5.33%	"	"	
Trichloroethene	"	0.0487	---	0.00250	"	"	--	"	97.4%	(70-125)	0.287%	"	"	
Total Xylenes	"	0.145	---	0.0100	"	"	--	0.150	96.5%	(70-130)	4.60%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 106%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>03/30/09 14:58</i>		
<i>Toluene-d8</i>		<i>102%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	03/31/09 17:16
	Project Manager:	Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C30026 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9C30026-BSD1)

Extracted: 03/30/09 12:38

Surrogate(s): 4-BFB

Recovery: 104%

Limits: 70-130% 1x

03/30/09 14:58

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/31/09 17:16
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C30023 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C30023-BLK1)													Extracted: 03/30/09 09:20	
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	03/30/09 16:31	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/30/09 16:31</i>	
<i>Toluene-d8</i>		<i>90.8%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>97.6%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9C30023-BS1)													Extracted: 03/30/09 09:20	
Benzene	EPA 8260B	4.11	---	0.0200	mg/kg wet	1x	--	4.00	103%	(75-125)	--	--	03/30/09 15:02	
Ethylbenzene	"	3.58	---	0.100	"	"	--	"	89.6%	"	--	--	"	
Methyl tert-butyl ether	"	4.46	---	0.0500	"	"	--	"	112%	"	--	--	"	
Naphthalene	"	4.09	---	2.00	"	"	--	"	102%	(60-140)	--	--	"	
Toluene	"	3.46	---	0.100	"	"	--	"	86.4%	(75-125)	--	--	"	
o-Xylene	"	3.30	---	0.100	"	"	--	"	82.6%	"	--	--	"	
m,p-Xylene	"	6.82	---	0.200	"	"	--	8.00	85.3%	"	--	--	"	
Xylenes (total)	"	10.1	---	0.300	"	"	--	12.0	84.4%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/30/09 15:02</i>	
<i>Toluene-d8</i>		<i>87.6%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>97.4%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9C30023-BSD1)													Extracted: 03/30/09 09:20	
Benzene	EPA 8260B	4.06	---	0.0200	mg/kg wet	1x	--	4.00	101%	(75-125)	1.35%	(20)	03/30/09 15:29	
Ethylbenzene	"	3.54	---	0.100	"	"	--	"	88.5%	"	1.18%	"	"	
Methyl tert-butyl ether	"	4.86	---	0.0500	"	"	--	"	122%	"	8.55%	"	"	
Naphthalene	"	4.65	---	2.00	"	"	--	"	116%	(60-140)	12.9%	"	"	
Toluene	"	3.47	---	0.100	"	"	--	"	86.6%	(75-125)	0.231%	"	"	
o-Xylene	"	3.34	---	0.100	"	"	--	"	83.6%	"	1.23%	"	"	
m,p-Xylene	"	6.81	---	0.200	"	"	--	8.00	85.1%	"	0.220%	"	"	
Xylenes (total)	"	10.2	---	0.300	"	"	--	12.0	84.6%	"	0.256%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/30/09 15:29</i>	
<i>Toluene-d8</i>		<i>89.3%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>98.5%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 03/31/09 17:16
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C30046 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C30046-BLK1)										Extracted: 03/30/09 18:02				
Dry Weight	BSOPSP00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	03/31/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/31/09 17:16

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

03/31/09 17:16

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- I2 - Internal Standard recovery was outside of method limits.
- Q3 - The chromatographic pattern is not consistent with diesel fuel.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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April 01, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 03/31/09 17:15.
The following list is a summary of the Work Orders contained in this report, generated on 04/01/09
16:50.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0323	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/01/09 16:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA2-F9-11.5	BSC0323-01	Soil	03/31/09 15:10	03/31/09 17:15
AREA2-F8-10.5	BSC0323-02	Soil	03/31/09 15:30	03/31/09 17:15
AREA2-E9-11.5	BSC0323-03	Soil	03/31/09 15:40	03/31/09 17:15
AREA2-E8-11.5	BSC0323-04	Soil	03/31/09 15:55	03/31/09 17:15

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/01/09 16:50

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0323-01 (AREA2-F9-11.5)		Soil		Sampled: 03/31/09 15:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	22.5	mg/kg dry	1x	9C31049	03/31/09 18:06	03/31/09 20:17	
<i>Surrogate(s): 4-BFB (FID)</i>			146%		80 - 140 %	"				Z2
BSC0323-02 (AREA2-F8-10.5)		Soil		Sampled: 03/31/09 15:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	19.5	mg/kg dry	1x	9C31049	03/31/09 18:06	03/31/09 20:49	
<i>Surrogate(s): 4-BFB (FID)</i>			143%		80 - 140 %	"				Z2
BSC0323-03 (AREA2-E9-11.5)		Soil		Sampled: 03/31/09 15:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	19.2	mg/kg dry	1x	9C31049	03/31/09 18:06	03/31/09 21:21	
<i>Surrogate(s): 4-BFB (FID)</i>			142%		80 - 140 %	"				Z2
BSC0323-04 (AREA2-E8-11.5)		Soil		Sampled: 03/31/09 15:55						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	12.7	mg/kg dry	1x	9C31049	03/31/09 18:06	03/31/09 21:53	
<i>Surrogate(s): 4-BFB (FID)</i>			150%		80 - 140 %	"				Z2

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/01/09 16:50
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0323-01 (AREA2-F9-11.5)		Soil		Sampled: 03/31/09 15:10						
Lube Oil	NWTPH-Dx	ND	----	61.5	mg/kg dry	1x	9C31029	03/31/09 16:24	03/31/09 22:01	
Kerosene	"	ND	----	24.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	24.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.9%		54 - 148 %	"				"
<i>Octacosane</i>			99.8%		62 - 142 %	"				"
BSC0323-02 (AREA2-F8-10.5)		Soil		Sampled: 03/31/09 15:30						
Lube Oil	NWTPH-Dx	ND	----	55.1	mg/kg dry	1x	9C31029	03/31/09 16:24	03/31/09 22:24	
Kerosene	"	ND	----	22.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	22.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.8%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSC0323-03 (AREA2-E9-11.5)		Soil		Sampled: 03/31/09 15:40						
Lube Oil	NWTPH-Dx	ND	----	53.7	mg/kg dry	1x	9C31029	03/31/09 16:24	03/31/09 22:46	
Kerosene	"	ND	----	21.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	30.8	----	21.5	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			79.5%		54 - 148 %	"				"
<i>Octacosane</i>			92.6%		62 - 142 %	"				"
BSC0323-04 (AREA2-E8-11.5)		Soil		Sampled: 03/31/09 15:55						
Lube Oil	NWTPH-Dx	ND	----	46.0	mg/kg dry	1x	9C31029	03/31/09 16:24	03/31/09 23:09	
Kerosene	"	ND	----	18.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	18.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			91.0%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/01/09 16:50

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0323-01 (AREA2-F9-11.5)		Soil		Sampled: 03/31/09 15:10						
Lead	EPA 6020	35.9	----	1.25	mg/kg dry	1x	9C31056	03/31/09 21:12	04/01/09 08:39	
BSC0323-02 (AREA2-F8-10.5)		Soil		Sampled: 03/31/09 15:30						
Lead	EPA 6020	1.27	----	1.09	mg/kg dry	1x	9C31056	03/31/09 21:12	04/01/09 09:03	
BSC0323-03 (AREA2-E9-11.5)		Soil		Sampled: 03/31/09 15:40						
Lead	EPA 6020	34.3	----	1.04	mg/kg dry	1x	9C31056	03/31/09 21:12	04/01/09 09:10	
BSC0323-04 (AREA2-E8-11.5)		Soil		Sampled: 03/31/09 15:55						
Lead	EPA 6020	9.67	----	0.924	mg/kg dry	1x	9C31056	03/31/09 21:12	04/01/09 09:16	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/01/09 16:50
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSC0323-01 (AREA2-F9-11.5)		Soil		Sampled: 03/31/09 15:10							A-01
Benzene	EPA 8260B	ND	----	0.00277	mg/kg dry	1x	9C31027	03/31/09 17:00	03/31/09 19:18		
Ethylbenzene	"	ND	----	0.00738	"	"	"	"	"	I2	
Naphthalene	"	ND	----	0.0185	"	"	"	"	"	I2	
Toluene	"	ND	----	0.00277	"	"	"	"	"	I2	
<i>Surrogate(s): 1,2-DCA-d4</i>			143%	70 - 140 %						Z1	
<i>Toluene-d8</i>			112%	70 - 130 %						I2	
<i>4-BFB</i>			115%	70 - 130 %						I2	
BSC0323-02RE1 (AREA2-F8-10.5)		Soil		Sampled: 03/31/09 15:30							A-01
Benzene	EPA 8260B	ND	----	0.00316	mg/kg dry	1x	9C31027	03/31/09 17:00	03/31/09 20:34		
Ethylbenzene	"	ND	----	0.00842	"	"	"	"	"	I2	
Naphthalene	"	ND	----	0.0211	"	"	"	"	"	I2	
Toluene	"	ND	----	0.00316	"	"	"	"	"	I2	
<i>Surrogate(s): 1,2-DCA-d4</i>			146%	70 - 140 %						Z1	
<i>Toluene-d8</i>			116%	70 - 130 %							
BSC0323-03RE1 (AREA2-E9-11.5)		Soil		Sampled: 03/31/09 15:40							A-01
Benzene	EPA 8260B	ND	----	0.00224	mg/kg dry	1x	9C31027	03/31/09 17:00	03/31/09 21:25		
Ethylbenzene	"	ND	----	0.00598	"	"	"	"	"	I2	
Methyl tert-butyl ether	"	0.00408	----	0.00149	"	"	"	"	"		
Naphthalene	"	ND	----	0.0149	"	"	"	"	"	I2	
<i>Surrogate(s): 1,2-DCA-d4</i>			139%	70 - 140 %							
<i>Toluene-d8</i>			115%	70 - 130 %						I2	
<i>4-BFB</i>			120%	70 - 130 %						I2	
BSC0323-04 (AREA2-E8-11.5)		Soil		Sampled: 03/31/09 15:55							
Benzene	EPA 8260B	ND	----	0.00188	mg/kg dry	1x	9C31027	03/31/09 17:00	03/31/09 21:51		
Ethylbenzene	"	ND	----	0.00501	"	"	"	"	"		
Methyl tert-butyl ether	"	0.00456	----	0.00125	"	"	"	"	"		
Naphthalene	"	ND	----	0.0125	"	"	"	"	"		
Toluene	"	ND	----	0.00188	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			133%	70 - 140 %							
<i>Toluene-d8</i>			106%	70 - 130 %							
<i>4-BFB</i>			116%	70 - 130 %							

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/01/09 16:50

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0323-01 (AREA2-F9-11.5)		Soil		Sampled: 03/31/09 15:10						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.225	mg/kg dry	1x	9C31035	03/31/09 18:11	03/31/09 18:48	
o-Xylene	"	ND	----	0.451	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.902	"	"	"	"	"	"
Xylenes (total)	"	ND	----	1.35	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>103%</i>		<i>75 - 125 %</i>	"				"
<i>Toluene-d8</i>			<i>87.0%</i>		<i>75 - 125 %</i>	"				"
<i>4-BFB</i>			<i>95.6%</i>		<i>75 - 125 %</i>	"				"

BSC0323-02 (AREA2-F8-10.5)		Soil		Sampled: 03/31/09 15:30						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.195	mg/kg dry	1x	9C31035	03/31/09 18:11	03/31/09 19:14	
o-Xylene	"	ND	----	0.390	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.780	"	"	"	"	"	"
Xylenes (total)	"	ND	----	1.17	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>106%</i>		<i>75 - 125 %</i>	"				"
<i>Toluene-d8</i>			<i>86.2%</i>		<i>75 - 125 %</i>	"				"
<i>4-BFB</i>			<i>96.6%</i>		<i>75 - 125 %</i>	"				"

BSC0323-03 (AREA2-E9-11.5)		Soil		Sampled: 03/31/09 15:40						
Toluene	EPA 8260B	ND	----	0.384	mg/kg dry	1x	9C31035	03/31/09 18:11	03/31/09 19:41	
o-Xylene	"	ND	----	0.384	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.768	"	"	"	"	"	"
Xylenes (total)	"	ND	----	1.15	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>108%</i>		<i>75 - 125 %</i>	"				"
<i>Toluene-d8</i>			<i>87.3%</i>		<i>75 - 125 %</i>	"				"
<i>4-BFB</i>			<i>95.2%</i>		<i>75 - 125 %</i>	"				"

BSC0323-04 (AREA2-E8-11.5)		Soil		Sampled: 03/31/09 15:55						
o-Xylene	EPA 8260B	ND	----	0.256	mg/kg dry	1x	9C31035	03/31/09 18:11	03/31/09 20:08	
m,p-Xylene	"	ND	----	0.511	"	"	"	"	"	"
Xylenes (total)	"	ND	----	0.767	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>109%</i>		<i>75 - 125 %</i>	"				"
<i>Toluene-d8</i>			<i>84.2%</i>		<i>75 - 125 %</i>	"				"
<i>4-BFB</i>			<i>93.2%</i>		<i>75 - 125 %</i>	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/01/09 16:50

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0323-01 (AREA2-F9-11.5)		Soil								Sampled: 03/31/09 15:10
Dry Weight	BSOPSP003R0 8	40.1	----	1.00	%	1x	9C31031	03/31/09 16:00	04/01/09 00:00	
BSC0323-02 (AREA2-F8-10.5)		Soil								Sampled: 03/31/09 15:30
Dry Weight	BSOPSP003R0 8	45.0	----	1.00	%	1x	9C31031	03/31/09 16:00	04/01/09 00:00	
BSC0323-03 (AREA2-E9-11.5)		Soil								Sampled: 03/31/09 15:40
Dry Weight	BSOPSP003R0 8	45.8	----	1.00	%	1x	9C31031	03/31/09 16:00	04/01/09 00:00	
BSC0323-04 (AREA2-E8-11.5)		Soil								Sampled: 03/31/09 15:55
Dry Weight	BSOPSP003R0 8	53.6	----	1.00	%	1x	9C31031	03/31/09 16:00	04/01/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/01/09 16:50
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31049 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31049-BLK1)								Extracted: 03/31/09 14:06						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/31/09 15:05	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.9%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>03/31/09 15:05</i>						
LCS (9C31049-BS1)								Extracted: 03/31/09 14:06						
Gasoline Range Hydrocarbons	NWTPH-Gx	48.3	---	5.00	mg/kg wet	1x	--	50.0	96.7%	(80-120)	--	--	03/31/09 15:37	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>03/31/09 15:37</i>						
Duplicate (9C31049-DUP1)				QC Source: BSC0324-01				Extracted: 03/31/09 14:06						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.23	mg/kg dry	1x	ND	--	--	--	NR (40)	--	03/31/09 19:45	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>03/31/09 19:45</i>						
Matrix Spike (9C31049-MS1)				QC Source: BSC0324-01				Extracted: 03/31/09 14:06						
Gasoline Range Hydrocarbons	NWTPH-Gx	53.7	---	5.23	mg/kg dry	1x	ND	49.0	110%	(75-130)	--	--	03/31/09 22:25	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 111%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>03/31/09 22:25</i>						

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/01/09 16:50
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31029 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C31029-BLK1)

Extracted: 03/31/09 16:24

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	03/31/09 20:07	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/31/09 20:07</i>	
<i>Octacosane</i>			<i>108%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9C31029-BS1)

Extracted: 03/31/09 16:24

Lube Oil	NWTPH-Dx	63.4	---	25.0	mg/kg wet	1x	--	66.7	95.1%	(63-125)	--	--	03/31/09 20:29	
Diesel Range Hydrocarbons	"	67.4	---	10.0	"	"	--	"	101%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/31/09 20:29</i>	
<i>Octacosane</i>			<i>105%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9C31029-DUP1)

QC Source: BSC0323-02

Extracted: 03/31/09 16:24

Lube Oil	NWTPH-Dx	ND	---	54.6	mg/kg dry	1x	ND	--	--	--	29.5%	(50)	03/31/09 20:52	
Kerosene	"	ND	---	21.8	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	21.8	"	"	ND	--	--	--	5.89%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/31/09 20:52</i>	
<i>Octacosane</i>			<i>102%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9C31029-MS1)

QC Source: BSC0323-02

Extracted: 03/31/09 16:24

Lube Oil	NWTPH-Dx	147	---	55.1	mg/kg dry	1x	28.3	147	80.5%	(26-150)	--	--	03/31/09 21:15	
Diesel Range Hydrocarbons	"	137	---	22.1	"	"	5.42	"	89.2%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>03/31/09 21:15</i>	
<i>Octacosane</i>			<i>100%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/01/09 16:50
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31056 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31056-BLK1)								Extracted: 03/31/09 21:12						
Lead	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 08:01	
LCS (9C31056-BS1)								Extracted: 03/31/09 21:12						
Lead	EPA 6020	41.3	---	0.495	mg/kg wet	1x	--	39.6	104%	(80-120)	--	--	04/01/09 08:08	
Duplicate (9C31056-DUP1)				QC Source: BSC0323-01				Extracted: 03/31/09 21:12						
Lead	EPA 6020	23.7	---	1.21	mg/kg dry	1x	35.9	--	--	--	41.0% (20)	--	04/01/09 08:26	R3
Matrix Spike (9C31056-MS1)				QC Source: BSC0323-01				Extracted: 03/31/09 21:12						
Lead	EPA 6020	128	---	1.26	mg/kg dry	1x	35.9	101	91.4%	(75-125)	--	--	04/01/09 08:20	
Post Spike (9C31056-PS1)				QC Source: BSC0323-01				Extracted: 03/31/09 21:12						
Lead	EPA 6020	0.137	---		ug/ml	1x	0.0288	0.100	107%	(80-120)	--	--	04/01/09 08:14	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/01/09 16:50

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9C31027

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31027-BLK1)													Extracted: 03/31/09 08:34	
Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	03/31/09 15:26	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	C
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759381	04/01/09 16:50
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31027-BLK1)													Extracted: 03/31/09 08:34	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	03/31/09 15:26	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 136%</i>		<i>Limits: 70-140%</i>									<i>03/31/09 15:26</i>	
<i>Toluene-d8</i>		<i>97.8%</i>		<i>70-130%</i>									<i>"</i>	
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>									<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/01/09 16:50

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9C31027-BS1)													Extracted: 03/31/09 08:34	
Acetone	EPA 8260B	0.575	---	0.0400	mg/kg wet	1x	--	0.500	115%	(60-140)	--	--	03/31/09 14:35	
Benzene	"	0.0473	---	0.00150	"	"	--	0.0500	94.5%	(70-125)	--	--	"	
2-Butanone	"	0.570	---	0.0300	"	"	--	0.500	114%	(60-140)	--	--	"	C8
Carbon disulfide	"	0.0454	---	0.00300	"	"	--	0.0500	90.8%	(70-130)	--	--	"	
Chlorobenzene	"	0.0448	---	0.00200	"	"	--	"	89.6%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0518	---	0.00200	"	"	--	"	104%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0520	---	0.00300	"	"	--	"	104%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0510	---	0.00300	"	"	--	"	102%	(75-125)	--	--	"	
Ethylbenzene	"	0.0456	---	0.00400	"	"	--	"	91.2%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0498	---	0.0100	"	"	--	"	99.6%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.520	---	0.0300	"	"	--	0.500	104%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0442	---	0.00200	"	"	--	0.0500	88.4%	(70-125)	--	--	"	
Toluene	"	0.0464	---	0.00150	"	"	--	"	92.8%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0508	---	0.00250	"	"	--	"	102%	(70-130)	--	--	"	
Trichloroethene	"	0.0463	---	0.00250	"	"	--	"	92.6%	(70-125)	--	--	"	
Total Xylenes	"	0.137	---	0.0100	"	"	--	0.150	91.2%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 108%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>03/31/09 14:35</i>		
<i>Toluene-d8</i>		<i>99.5%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9C31027-BSD1)

Extracted: 03/31/09 08:34

Acetone	EPA 8260B	0.562	---	0.0400	mg/kg wet	1x	--	0.500	112%	(60-140)	2.42% (30)		03/31/09 15:01	
Benzene	"	0.0508	---	0.00150	"	"	--	0.0500	102%	(70-125)	7.14%	"	"	
2-Butanone	"	0.569	---	0.0300	"	"	--	0.500	114%	(60-140)	0.102%	"	"	C8
Carbon disulfide	"	0.0475	---	0.00300	"	"	--	0.0500	94.9%	(70-130)	4.44%	"	"	
Chlorobenzene	"	0.0479	---	0.00200	"	"	--	"	95.7%	(70-125)	6.65%	"	"	
1,1-Dichloroethane	"	0.0540	---	0.00200	"	"	--	"	108%	(75-125)	4.27%	"	"	
1,1-Dichloroethene	"	0.0542	---	0.00300	"	"	--	"	108%	(70-130)	4.18%	"	"	
cis-1,2-Dichloroethene	"	0.0531	---	0.00300	"	"	--	"	106%	(75-125)	3.96%	"	"	
Ethylbenzene	"	0.0489	---	0.00400	"	"	--	"	97.8%	(70-125)	7.05%	"	"	
Hexachlorobutadiene	"	0.0510	---	0.0100	"	"	--	"	102%	(70-130)	2.26%	"	"	
4-Methyl-2-pentanone	"	0.517	---	0.0300	"	"	--	0.500	103%	(60-140)	0.604%	"	"	
Tetrachloroethene	"	0.0474	---	0.00200	"	"	--	0.0500	94.8%	(70-125)	7.03%	"	"	
Toluene	"	0.0496	---	0.00150	"	"	--	"	99.3%	"	6.79%	"	"	
1,1,1-Trichloroethane	"	0.0542	---	0.00250	"	"	--	"	108%	(70-130)	6.43%	"	"	
Trichloroethene	"	0.0498	---	0.00250	"	"	--	"	99.6%	(70-125)	7.29%	"	"	
Total Xylenes	"	0.144	---	0.0100	"	"	--	0.150	95.8%	(70-130)	4.93%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 106%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>03/31/09 15:01</i>		
<i>Toluene-d8</i>		<i>100%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/01/09 16:50
	Project Manager:	Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9C31027-BSD1)

Extracted: 03/31/09 08:34

Surrogate(s): 4-BFB

Recovery: 98.8%

Limits: 70-130% 1x

03/31/09 15:01

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/01/09 16:50
--	---	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31035 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31035-BLK1)													Extracted: 03/31/09 10:11	
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	03/31/09 17:52	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/31/09 17:52</i>	
<i>Toluene-d8</i>			<i>88.2%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>97.6%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9C31035-BS1)													Extracted: 03/31/09 10:11	
Benzene	EPA 8260B	3.82	---	0.0200	mg/kg wet	1x	--	4.00	95.6%	(75-125)	--	--	03/31/09 15:40	
Ethylbenzene	"	3.48	---	0.100	"	"	--	"	87.0%	"	--	--	"	
Methyl tert-butyl ether	"	4.83	---	0.0500	"	"	--	"	121%	"	--	--	"	
Naphthalene	"	4.58	---	2.00	"	"	--	"	114%	(60-140)	--	--	"	
Toluene	"	3.34	---	0.100	"	"	--	"	83.5%	(75-125)	--	--	"	
o-Xylene	"	3.32	---	0.100	"	"	--	"	83.0%	"	--	--	"	
m,p-Xylene	"	6.79	---	0.200	"	"	--	8.00	84.9%	"	--	--	"	
Xylenes (total)	"	10.1	---	0.300	"	"	--	12.0	84.2%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/31/09 15:40</i>	
<i>Toluene-d8</i>			<i>87.0%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>92.8%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9C31035-BSD1)													Extracted: 03/31/09 10:11	
Benzene	EPA 8260B	3.90	---	0.0200	mg/kg wet	1x	--	4.00	97.6%	(75-125)	2.04%	(20)	03/31/09 16:50	
Ethylbenzene	"	3.43	---	0.100	"	"	--	"	85.7%	"	1.51%	"	"	
Methyl tert-butyl ether	"	4.45	---	0.0500	"	"	--	"	111%	"	8.18%	"	"	
Naphthalene	"	4.13	---	2.00	"	"	--	"	103%	(60-140)	10.3%	"	"	
Toluene	"	3.27	---	0.100	"	"	--	"	81.8%	(75-125)	2.03%	"	"	
o-Xylene	"	3.19	---	0.100	"	"	--	"	79.8%	"	3.99%	"	"	
m,p-Xylene	"	6.58	---	0.200	"	"	--	8.00	82.2%	"	3.22%	"	"	
Xylenes (total)	"	9.76	---	0.300	"	"	--	12.0	81.4%	"	3.47%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.1%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>03/31/09 16:50</i>	
<i>Toluene-d8</i>			<i>84.2%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>95.0%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/01/09 16:50
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31031 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31031-BLK1)										Extracted: 03/31/09 12:26				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/01/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/01/09 16:50

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/01/09 16:50

Notes and Definitions

Report Specific Notes:

- A-01 - Internal Standard and/or surrogate was outside method control limits biasing results high. Reported analytes ND; data not affected.
- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I2 - Internal Standard recovery was outside of method limits.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z1 - Surrogate recovery was above acceptance limits.
- Z2 - Surrogate recovery was above the acceptance limits. Data not impacted.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSC0323**

CLIENT: CHOCO PHILLIPS		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: WMEF STAFF		P.O. NUMBER:		in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses STD.	
PHONE:		FAX:		10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/>	
PROJECT NAME: WMEF		PRESERVATIVE		OTHER <input type="checkbox"/> Specify: 24 hr * Turnaround Requests less than standard may incur Rush Charges.	
PROJECT NUMBER:		REQUESTED ANALYSES		MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WO ID	
SAMPLED BY: MATTHEW MCKESSON		DATE/TIME		S 6 PID < 1ppm -01 " " < 1ppm -02 " " < 1ppm -03 " " < 1ppm -04	
1	AREA 2-F9-11.5	3/31/09	1510		
2	AREA 2-F8-10.5	"	1530		
3	AREA 2-E9-11.5	"	1540		
4	AREA 2-E8-11.5	"	1555		
5					
6					
7					
8					
9					
10					

RECEIVED BY: **[Signature]** DATE: **3/31/09** TIME: **1630**
 PRINT NAME: **Francisco Lungs Jr.** FIRM: **TA-SEA**
 RECEIVED BY: DATE: TIME:
 PRINT NAME: PRINT NAME: FIRM: FIRM:

ADDITIONAL REMARKS:
***Naphthalene & MTBE**

@ Lab 1715

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle **Y** or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 03-31-09

Date: 03-31

Date: 03-31-09

Work Order No. BSC0323

Time: 1715

Time: 1729

Time: 1720

Client: _____

Initials: FL

Initials: CW

Initials: CW

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler
 Box
 None/Other _____

Ship Container
 On Bottles
 None
Sign By _____
Date _____

Bubble Bags
 Styrofoam
 Foam Packs
 None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Placed in freezer #46:
Y or **N** or NA
Initial/date/time _____

Fed Ex
 UPS
 DHL
 Senvoy
 GS
 Client
 TA Courier
 Mid Valley
 TDP
 Other _____

Cooler Temperature (**IR**): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 71 °C or NA comments _____

Trip Blank? Y or **N** or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N
Provided by TA? or N
Correct Type? or N
#Containers match COC? or N
IDs/time/date match COC? or N
Hold Times in hold? or N

Metals Preserved? Y or N or **NA** SOIL
Client QAPP Preserved? Y or N or **NA**
Adequate Volume? or N
(for tests requested)
Water VOAs: Headspace? Y or N or **NA**
Comments: _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Has client been contacted regarding non-conformances?

Y or N

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 01, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 03/31/09 17:15.
The following list is a summary of the Work Orders contained in this report, generated on 04/01/09
16:34.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0324	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/01/09 16:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AMAZON LOT34-6	BSC0324-01	Soil	03/31/09 11:50	03/31/09 17:15

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/01/09 16:34
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0324-01 (AMAZON LOT34-6)		Soil			Sampled: 03/31/09 11:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.23	mg/kg dry	1x	9C31049	03/31/09 18:06	03/31/09 19:13	
<i>Surrogate(s): 4-BFB (FID)</i>			<i>105%</i>		<i>80 - 140 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/01/09 16:34

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0324-01 (AMAZON LOT34-6)										
		Soil					Sampled: 03/31/09 11:50			
Lube Oil	NWTPH-Dx	ND	----	26.7	mg/kg dry	1x	9C31051	03/31/09 18:00	04/01/09 02:12	
Kerosene	"	ND	----	10.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	10.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				99.9%		60 - 135 %	"			"
<i>Octacosane</i>				112%		75 - 125 %	"			"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/01/09 16:34

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0324-01RE1 (AMAZON LOT34-6)		Soil		Sampled: 03/31/09 11:50						
Acetone	EPA 8260B	ND	----	28.8	ug/kg dry	1x	9C31027	03/31/09 17:00	03/31/09 18:52	
Benzene	"	ND	----	1.08	"	"	"	"	"	
Bromobenzene	"	ND	----	3.60	"	"	"	"	"	
Bromochloromethane	"	ND	----	3.60	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.60	"	"	"	"	"	
Bromoform	"	ND	----	3.60	"	"	"	"	"	
Bromomethane	"	ND	----	7.21	"	"	"	"	"	
2-Butanone	"	ND	----	21.6	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.60	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	3.60	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	3.60	"	"	"	"	"	
Carbon disulfide	"	ND	----	2.16	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.60	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.44	"	"	"	"	"	
Chloroethane	"	ND	----	3.60	"	"	"	"	"	
Chloroform	"	ND	----	1.80	"	"	"	"	"	
Chloromethane	"	ND	----	7.21	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.60	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	3.60	"	"	"	"	"	
Dibromochloromethane	"	ND	----	3.60	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	7.21	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	3.60	"	"	"	"	"	
Dibromomethane	"	ND	----	3.60	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.60	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	3.60	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	3.60	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	3.60	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.44	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.901	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	2.16	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	2.16	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.80	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.60	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.60	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	7.21	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.60	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.60	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.901	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.88	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	7.21	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.721	"	"	"	"	"	
n-Hexane	"	ND	----	3.60	"	"	"	"	"	
2-Hexanone	"	ND	----	21.6	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/01/09 16:34

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0324-01RE1 (AMAZON LOT34-6)		Soil		Sampled: 03/31/09 11:50						
Isopropylbenzene	EPA 8260B	ND	----	3.60	ug/kg dry	1x	9C31027	03/31/09 17:00	03/31/09 18:52	
p-Isopropyltoluene	"	ND	----	3.60	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	21.6	"	"	"	"	"	
Methylene chloride	"	ND	----	8.65	"	"	"	"	"	
Naphthalene	"	ND	----	7.21	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.60	"	"	"	"	"	
Styrene	"	ND	----	1.80	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	7.21	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	7.21	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.60	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.60	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.44	"	"	"	"	"	
Toluene	"	ND	----	1.08	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.80	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.44	"	"	"	"	"	
Trichloroethene	"	ND	----	1.80	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.60	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.60	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.60	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.60	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.80	"	"	"	"	"	
o-Xylene	"	ND	----	3.60	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.60	"	"	"	"	"	
Total Xylenes	"	ND	----	7.21	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>127%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>97.3%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>104%</i>	<i>70 - 130 %</i>						

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/01/09 16:34

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0324-01 (AMAZON LOT34-6)										
		Soil					Sampled: 03/31/09 11:50			
Acenaphthene	8270C-SIM	ND	----	0.0105	mg/kg dry	1x	9C31050	03/31/09 17:58	04/01/09 12:16	
Acenaphthylene	"	ND	----	0.0105	"	"	"	"	"	
Anthracene	"	ND	----	0.0105	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0105	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0105	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0105	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0105	"	"	"	"	"	
Benzo (b & k) fluoranthene	"	ND	----	0.0211	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0105	"	"	"	"	"	
Chrysene	"	ND	----	0.0105	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0105	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0105	"	"	"	"	"	
Fluorene	"	ND	----	0.0105	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0105	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0105	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0105	"	"	"	"	"	
Naphthalene	"	ND	----	0.0105	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0105	"	"	"	"	"	
Pyrene	"	ND	----	0.0105	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			95.0%		46 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/01/09 16:34
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0324-01	(AMAZON LOT34-6)									
		Soil			Sampled: 03/31/09 11:50					
Dry Weight	BSOPSPL003R0 8	93.8	----	1.00	%	1x	9C31031	03/31/09 12:26	04/01/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/01/09 16:34
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31049 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31049-BLK1)								Extracted: 03/31/09 14:06						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	03/31/09 15:05	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.9%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>03/31/09 15:05</i>						
LCS (9C31049-BS1)								Extracted: 03/31/09 14:06						
Gasoline Range Hydrocarbons	NWTPH-Gx	48.3	---	5.00	mg/kg wet	1x	--	50.0	96.7%	(80-120)	--	--	03/31/09 15:37	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>03/31/09 15:37</i>						
Duplicate (9C31049-DUP1)				QC Source: BSC0324-01				Extracted: 03/31/09 14:06						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.23	mg/kg dry	1x	ND	--	--	--	NR (40)	--	03/31/09 19:45	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>03/31/09 19:45</i>						
Matrix Spike (9C31049-MS1)				QC Source: BSC0324-01				Extracted: 03/31/09 14:06						
Gasoline Range Hydrocarbons	NWTPH-Gx	53.7	---	5.23	mg/kg dry	1x	ND	49.0	110%	(75-130)	--	--	03/31/09 22:25	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 111%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>03/31/09 22:25</i>						

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/01/09 16:34
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31051 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9C31051-BLK1)													Extracted: 03/31/09 18:00			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 00:41			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.7%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/01/09 00:41</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
LCS (9C31051-BS1)													Extracted: 03/31/09 18:00			
Lube Oil	NWTPH-Dx	62.3	---	25.0	mg/kg wet	1x	--	66.7	93.4%	(63-125)	--	--	04/01/09 01:03			
Diesel Range Hydrocarbons	"	72.9	---	10.0	"	"	--	"	109%	(75-125)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.9%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/01/09 01:03</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
Duplicate (9C31051-DUP1)													QC Source: BSC0324-01		Extracted: 03/31/09 18:00	
Lube Oil	NWTPH-Dx	ND	---	26.3	mg/kg dry	1x	ND	--	--	--	30.2% (40)		04/01/09 01:26			
Kerosene	"	ND	---	10.5	"	"	ND	--	--	--	NR	"	"			
Diesel Range Hydrocarbons	"	ND	---	10.5	"	"	ND	--	--	--	NR	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.5%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/01/09 01:26</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9C31051-MS1)													QC Source: BSC0324-01		Extracted: 03/31/09 18:00	
Lube Oil	NWTPH-Dx	67.7	---	26.4	mg/kg dry	1x	8.73	70.4	83.8%	(26-150)	--	--	04/01/09 01:49			
Diesel Range Hydrocarbons	"	74.8	---	10.6	"	"	ND	"	106%	(40-145)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>97.0%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/01/09 01:49</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>			

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/01/09 16:34
--	--	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31056	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C31056-BLK1)

Extracted: 03/31/09 21:12

Silver	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 08:01	
Arsenic	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

LCS (9C31056-BS1)

Extracted: 03/31/09 21:12

Lead	EPA 6020	41.3	---	0.495	mg/kg wet	1x	--	39.6	104%	(80-120)	--	--	04/01/09 08:08	
Chromium	"	40.7	---	0.495	"	"	--	"	103%	"	--	--	"	
Arsenic	"	40.9	---	0.495	"	"	--	"	103%	"	--	--	"	
Cadmium	"	40.8	---	0.495	"	"	--	"	103%	"	--	--	"	
Silver	"	41.0	---	0.495	"	"	--	"	104%	"	--	--	"	
Selenium	"	41.7	---	0.990	"	"	--	"	105%	"	--	--	"	
Barium	"	41.3	---	4.95	"	"	--	"	104%	"	--	--	"	

Duplicate (9C31056-DUP1)

QC Source: BSC0323-01

Extracted: 03/31/09 21:12

Selenium	EPA 6020	ND	---	2.42	mg/kg dry	1x	ND	--	--	--	NR (20)	--	04/01/09 08:26	
Cadmium	"	ND	---	1.21	"	"	ND	--	--	--	NR	"	"	
Silver	"	ND	---	1.21	"	"	ND	--	--	--	NR	"	"	
Barium	"	76.8	---	12.1	"	"	84.1	--	--	--	9.05%	"	"	
Arsenic	"	3.93	---	1.21	"	"	4.22	--	--	--	7.17%	"	"	
Lead	"	23.7	---	1.21	"	"	35.9	--	--	--	41.0%	"	"	R3
Chromium	"	27.9	---	1.21	"	"	30.5	--	--	--	8.71%	"	"	

Matrix Spike (9C31056-MS1)

QC Source: BSC0323-01

Extracted: 03/31/09 21:12

Lead	EPA 6020	128	---	1.26	mg/kg dry	1x	35.9	101	91.4%	(75-125)	--	--	04/01/09 08:20	
Silver	"	92.5	---	1.26	"	"	ND	"	91.9%	"	--	--	"	
Arsenic	"	101	---	1.26	"	"	4.22	"	95.8%	"	--	--	"	
Cadmium	"	97.7	---	1.26	"	"	0.174	"	96.9%	"	--	--	"	
Barium	"	184	---	12.6	"	"	84.1	"	98.9%	"	--	--	"	
Selenium	"	101	---	2.52	"	"	ND	"	100%	"	--	--	"	
Chromium	"	127	---	1.26	"	"	30.5	"	95.5%	"	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/01/09 16:34
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31056	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9C31056-PS1)			QC Source: BSC0323-01				Extracted: 03/31/09 21:12							
Selenium	EPA 6020	0.106	---		ug/ml	1x	0.000470	0.100	105%	(80-120)	--	--	04/01/09 08:14	
Lead	"	0.137	---		"	"	0.0288	"	107%	"	--	--	"	
Cadmium	"	0.105	---		"	"	0.000140	"	105%	"	--	--	"	
Barium	"	0.176	---		"	"	0.0675	"	109%	"	--	--	"	
Arsenic	"	0.111	---		"	"	0.00339	0.0995	108%	"	--	--	"	
Silver	"	0.100	---		"	"	0.000150	0.100	99.8%	"	--	--	"	
Chromium	"	0.130	---		"	"	0.0245	"	105%	"	--	--	"	

QC Batch: 9D01014	Soil Preparation Method: EPA 7471A
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D01014-BLK1)			QC Source: BSC0324-01				Extracted: 04/01/09 11:28							
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 12:17	
LCS (9D01014-BS1)			QC Source: BSC0324-01				Extracted: 04/01/09 11:28							
Mercury	EPA 7471A	0.629	---	0.100	mg/kg wet	1x	--	0.667	94.4%	(80-120)	--	--	04/01/09 12:19	
LCS Dup (9D01014-BSD1)			QC Source: BSC0324-01				Extracted: 04/01/09 11:28							
Mercury	EPA 7471A	0.630	---	0.100	mg/kg wet	1x	--	0.667	94.4%	(80-120)	0.0965% (20)		04/01/09 12:22	
Matrix Spike (9D01014-MS1)			QC Source: BSC0324-01				Extracted: 04/01/09 11:28							
Mercury	EPA 7471A	0.718	---	0.107	mg/kg dry	1x	0.0601	0.711	92.5%	(80-125)	--	--	04/01/09 12:24	
Matrix Spike Dup (9D01014-MSD1)			QC Source: BSC0324-01				Extracted: 04/01/09 11:28							
Mercury	EPA 7471A	0.705	---	0.107	mg/kg dry	1x	0.0601	0.711	90.7%	(80-125)	1.84% (30)		04/01/09 12:27	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/01/09 16:34
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9C31027-BLK1)													Extracted: 03/31/09 08:34	
Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	03/31/09 15:26	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	C
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/01/09 16:34

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31027-BLK1)													Extracted: 03/31/09 08:34	
Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	03/31/09 15:26	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 136%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>03/31/09 15:26</i>	
<i>Toluene-d8</i>		<i>97.8%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/01/09 16:34
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9C31027-BS1)														
Extracted: 03/31/09 08:34														
Acetone	EPA 8260B	575	---	40.0	ug/kg wet	1x	--	500	115%	(60-140)	--	--	03/31/09 14:35	
Benzene	"	47.3	---	1.50	"	"	--	50.0	94.5%	(70-125)	--	--	"	
2-Butanone	"	570	---	30.0	"	"	--	500	114%	(60-140)	--	--	"	C8
Carbon disulfide	"	45.4	---	3.00	"	"	--	50.0	90.8%	(70-130)	--	--	"	
Chlorobenzene	"	44.8	---	2.00	"	"	--	"	89.6%	(70-125)	--	--	"	
1,1-Dichloroethane	"	51.8	---	2.00	"	"	--	"	104%	(75-125)	--	--	"	
1,1-Dichloroethene	"	52.0	---	3.00	"	"	--	"	104%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	51.0	---	3.00	"	"	--	"	102%	(75-125)	--	--	"	
Ethylbenzene	"	45.6	---	4.00	"	"	--	"	91.2%	(70-125)	--	--	"	
Hexachlorobutadiene	"	49.8	---	10.0	"	"	--	"	99.6%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	520	---	30.0	"	"	--	500	104%	(60-140)	--	--	"	
Tetrachloroethene	"	44.2	---	2.00	"	"	--	50.0	88.4%	(70-125)	--	--	"	
Toluene	"	46.4	---	1.50	"	"	--	"	92.8%	"	--	--	"	
1,1,1-Trichloroethane	"	50.8	---	2.50	"	"	--	"	102%	(70-130)	--	--	"	
Trichloroethene	"	46.3	---	2.50	"	"	--	"	92.6%	(70-125)	--	--	"	
Total Xylenes	"	137	---	10.0	"	"	--	150	91.2%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 108%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>03/31/09 14:35</i>		
<i>Toluene-d8</i>		<i>99.5%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9C31027-BSD1)														
Extracted: 03/31/09 08:34														
Acetone	EPA 8260B	562	---	40.0	ug/kg wet	1x	--	500	112%	(60-140)	2.42% (30)		03/31/09 15:01	
Benzene	"	50.8	---	1.50	"	"	--	50.0	102%	(70-125)	7.14%	"	"	
2-Butanone	"	569	---	30.0	"	"	--	500	114%	(60-140)	0.102%	"	"	C8
Carbon disulfide	"	47.5	---	3.00	"	"	--	50.0	94.9%	(70-130)	4.44%	"	"	
Chlorobenzene	"	47.9	---	2.00	"	"	--	"	95.7%	(70-125)	6.65%	"	"	
1,1-Dichloroethane	"	54.0	---	2.00	"	"	--	"	108%	(75-125)	4.27%	"	"	
1,1-Dichloroethene	"	54.2	---	3.00	"	"	--	"	108%	(70-130)	4.18%	"	"	
cis-1,2-Dichloroethene	"	53.1	---	3.00	"	"	--	"	106%	(75-125)	3.96%	"	"	
Ethylbenzene	"	48.9	---	4.00	"	"	--	"	97.8%	(70-125)	7.05%	"	"	
Hexachlorobutadiene	"	51.0	---	10.0	"	"	--	"	102%	(70-130)	2.26%	"	"	
4-Methyl-2-pentanone	"	517	---	30.0	"	"	--	500	103%	(60-140)	0.604%	"	"	
Tetrachloroethene	"	47.4	---	2.00	"	"	--	50.0	94.8%	(70-125)	7.03%	"	"	
Toluene	"	49.6	---	1.50	"	"	--	"	99.3%	"	6.79%	"	"	
1,1,1-Trichloroethane	"	54.2	---	2.50	"	"	--	"	108%	(70-130)	6.43%	"	"	
Trichloroethene	"	49.8	---	2.50	"	"	--	"	99.6%	(70-125)	7.29%	"	"	
Total Xylenes	"	144	---	10.0	"	"	--	150	95.8%	(70-130)	4.93%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 106%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>03/31/09 15:01</i>		
<i>Toluene-d8</i>		<i>100%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/01/09 16:34
	Project Manager:	Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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LCS Dup (9C31027-BSD1)

Extracted: 03/31/09 08:34

Surrogate(s): 4-BFB

Recovery: 98.8%

Limits: 70-130% 1x

03/31/09 15:01

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/01/09 16:34
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31050 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31050-BLK1)													Extracted: 03/31/09 17:58	
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 11:10	
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	12
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	12
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	12
Benzo (b & k) fluoranthene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	12
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	12
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	12
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	12
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

Surrogate(s): *p-Terphenyl-d14* Recovery: 98.5% Limits: 46-125% " 04/01/09 11:10

LCS (9C31050-BS1)													Extracted: 03/31/09 17:58	
Acenaphthene	8270C-SIM	0.777	---	0.0100	mg/kg wet	1x	--	0.667	117%	(65-130)	--	--	04/01/09 11:43	
Acenaphthylene	"	0.807	---	0.0100	"	"	--	"	121%	(67-142)	--	--	"	
Anthracene	"	0.954	---	0.0100	"	"	--	"	143%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.844	---	0.0100	"	"	--	"	127%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.821	---	0.0100	"	"	--	"	123%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.771	---	0.0100	"	"	--	"	116%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.979	---	0.0100	"	"	--	"	147%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.760	---	0.0100	"	"	--	"	114%	"	--	--	"	
Chrysene	"	0.859	---	0.0100	"	"	--	"	129%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.680	---	0.0100	"	"	--	"	102%	(56-149)	--	--	"	
Fluoranthene	"	0.920	---	0.0100	"	"	--	"	138%	(72-145)	--	--	"	
Fluorene	"	0.883	---	0.0100	"	"	--	"	132%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.696	---	0.0100	"	"	--	"	104%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.769	---	0.0100	"	"	--	"	115%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.790	---	0.0100	"	"	--	"	118%	(56-124)	--	--	"	
Naphthalene	"	0.741	---	0.0100	"	"	--	"	111%	(56-146)	--	--	"	
Phenanthrene	"	0.786	---	0.0100	"	"	--	"	118%	(64-139)	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/01/09 16:34
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31050 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9C31050-BS1)													Extracted: 03/31/09 17:58	
Pyrene	8270C-SIM	0.792	---	0.0100	mg/kg wet	1x	--	0.667	119%	(58-149)	--	--	04/01/09 11:43	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 90.8%</i>		<i>Limits: 46-125%</i>		<i>"</i>								<i>04/01/09 11:43</i>

Matrix Spike (9C31050-MS1)													QC Source: BSC0324-01	Extracted: 03/31/09 17:58
Acenaphthene	8270C-SIM	0.735	---	0.0105	mg/kg dry	1x	ND	0.702	105%	(64-140)	--	--	04/01/09 12:59	
Acenaphthylene	"	0.759	---	0.0105	"	"	ND	"	108%	(66-150)	--	--	"	
Anthracene	"	0.922	---	0.0105	"	"	ND	"	131%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.802	---	0.0105	"	"	0.00351	"	114%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.779	---	0.0105	"	"	0.00379	"	111%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.838	---	0.0105	"	"	0.00344	"	119%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.749	---	0.0105	"	"	0.00611	"	106%	"	--	--	"	
Benzo (ghi) perylene	"	0.775	---	0.0105	"	"	0.00372	"	110%	"	--	--	"	
Chrysene	"	0.829	---	0.0105	"	"	0.00456	"	117%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.699	---	0.0105	"	"	0.00246	"	99.2%	(55-150)	--	--	"	
Fluoranthene	"	0.918	---	0.0105	"	"	0.00547	"	130%	(70-150)	--	--	"	
Fluorene	"	0.838	---	0.0105	"	"	ND	"	119%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.711	---	0.0105	"	"	0.00309	"	101%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.730	---	0.0105	"	"	ND	"	104%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.751	---	0.0105	"	"	ND	"	107%	(50-140)	--	--	"	
Naphthalene	"	0.692	---	0.0105	"	"	ND	"	98.7%	(47-147)	--	--	"	
Phenanthrene	"	0.798	---	0.0105	"	"	0.00225	"	113%	(56-150)	--	--	"	
Pyrene	"	0.749	---	0.0105	"	"	0.00498	"	106%	(57-150)	--	--	"	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 82.2%</i>		<i>Limits: 46-125%</i>		<i>"</i>								<i>04/01/09 12:59</i>

Matrix Spike Dup (9C31050-MSD1)													QC Source: BSC0324-01	Extracted: 03/31/09 17:58
Acenaphthene	8270C-SIM	0.760	---	0.0105	mg/kg dry	1x	ND	0.699	109%	(64-140)	3.27% (41)		04/01/09 13:32	
Acenaphthylene	"	0.778	---	0.0105	"	"	ND	"	111%	(66-150)	2.56%	"	"	
Anthracene	"	0.946	---	0.0105	"	"	ND	"	135%	(54-150)	2.60%	"	"	
Benzo (a) anthracene	"	0.834	---	0.0105	"	"	0.00351	"	119%	(57-150)	3.94%	"	"	
Benzo (a) pyrene	"	0.811	---	0.0105	"	"	0.00379	"	115%	(55-150)	3.98% (35)	"	"	
Benzo (b) fluoranthene	"	0.728	---	0.0105	"	"	0.00344	"	104%	(54-150)	14.0% (41)	"	"	
Benzo (k) fluoranthene	"	0.972	---	0.0105	"	"	0.00611	"	138%	"	25.9%	"	"	
Benzo (ghi) perylene	"	0.785	---	0.0105	"	"	0.00372	"	112%	"	1.32%	"	"	
Chrysene	"	0.856	---	0.0105	"	"	0.00456	"	122%	(65-150)	3.18% (40)	"	"	
Dibenz (a,h) anthracene	"	0.711	---	0.0105	"	"	0.00246	"	101%	(55-150)	1.81% (41)	"	"	
Fluoranthene	"	0.916	---	0.0105	"	"	0.00547	"	130%	(70-150)	0.221%	"	"	
Fluorene	"	0.875	---	0.0105	"	"	ND	"	125%	(74-150)	4.28% (44)	"	"	
Indeno (1,2,3-cd) pyrene	"	0.724	---	0.0105	"	"	0.00309	"	103%	(50-150)	1.83%	"	"	
1-Methylnaphthalene	"	0.700	---	0.0105	"	"	ND	"	100%	(45-145)	4.20% (41)	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/01/09 16:34
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31050 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9C31050-MSD1)			QC Source: BSC0324-01				Extracted: 03/31/09 17:58							
2-Methylnaphthalene	8270C-SIM	0.730	---	0.0105	mg/kg dry	1x	ND	0.699	104%	(50-140)	2.94%	(41)	04/01/09 13:32	
Naphthalene	"	0.667	---	0.0105	"	"	ND	"	95.4%	(47-147)	3.76%	"	"	
Phenanthrene	"	0.783	---	0.0105	"	"	0.00225	"	112%	(56-150)	1.87%	"	"	
Pyrene	"	0.774	---	0.0105	"	"	0.00498	"	110%	(57-150)	3.25%	"	"	
Surrogate(s): p-Terphenyl-d14		Recovery: 84.2%		Limits: 46-125%		"		04/01/09 13:32						

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/01/09 16:34
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9C31031 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C31031-BLK1)										Extracted: 03/31/09 12:26				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/01/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/01/09 16:34

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/01/09 16:34

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I2 - Internal Standard recovery was outside of method limits.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 03-31-09

Date: 03-31

Date: 03-31

Work Order No. BSC0324

Time: 0715

Time: 1739

Time: 1720

Client: _____

Initials: FL

Initials: CW

Initials: CW

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler
 Box
 None/Other _____

Ship Container
 On Bottles
 None
Sign By _____
Date _____

Bubble Bags
 Styrofoam
 Foam Packs
 None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Placed in freezer #46:
Y or N or NA
Initial/date/time _____

Fed Ex
 UPS
 DHL
 Senvoy
 GS
 Client
 TA Courier
 Mid Valley
 TDP
 Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 7.1 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact?	<u>Y</u> or N	_____	Metals Preserved?	Y or N or NA	<u>SOIL</u>
Provided by TA?	<u>Y</u> or N	_____	Client QAPP Preserved?	Y or N or <u>NA</u>	_____
Correct Type?	<u>Y</u> or N	_____	Adequate Volume? (for tests requested)	<u>Y</u> or N	_____
#Containers match COC?	<u>Y</u> or N	_____	Water VOAs: Headspace?	Y or N or <u>NA</u>	_____
IDs/time/date match COC?	<u>Y</u> or N	_____	Comments:	_____	_____
Hold Times in hold?	<u>Y</u> or N	_____	_____	_____	_____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Has client been contacted regarding non-conformances?

Y or N
Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 02, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/01/09 16:50.
The following list is a summary of the Work Orders contained in this report, generated on 04/02/09
17:02.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0016	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/02/09 17:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area2-F5-11	BSD0016-01	Soil	04/01/09 08:00	04/01/09 16:50
Area2-F6-12	BSD0016-02	Soil	04/01/09 08:15	04/01/09 16:50
Area2-E5-11.5	BSD0016-03	Soil	04/01/09 09:10	04/01/09 16:50
Area2-E6-12	BSD0016-04	Soil	04/01/09 09:30	04/01/09 16:50
Area2-E7-11.5	BSD0016-05	Soil	04/01/09 09:45	04/01/09 16:50
Area1-B11-14	BSD0016-06	Soil	04/01/09 11:10	04/01/09 16:50
Area1-B12-14	BSD0016-07	Soil	04/01/09 11:30	04/01/09 16:50
Area1-B13-14	BSD0016-08	Soil	04/01/09 11:45	04/01/09 16:50
Area1-B14-14	BSD0016-09	Soil	04/01/09 13:00	04/01/09 16:50
Area1-C13-14	BSD0016-10	Soil	04/01/09 13:20	04/01/09 16:50
Area1-C12-14	BSD0016-11	Soil	04/01/09 13:50	04/01/09 16:50

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-01 (Area2-F5-11)		Soil		Sampled: 04/01/09 08:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	21.1	mg/kg dry	1x	9D01046	04/01/09 17:25	04/01/09 20:52	MI
Surrogate(s): 4-BFB (FID)			140%		80 - 140 %	"			"	
BSD0016-02 (Area2-F6-12)		Soil		Sampled: 04/01/09 08:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.6	mg/kg dry	1x	9D01046	04/01/09 17:25	04/01/09 21:55	
Surrogate(s): 4-BFB (FID)			152%		80 - 140 %	"			"	ZX
BSD0016-03 (Area2-E5-11.5)		Soil		Sampled: 04/01/09 09:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	37.3	mg/kg dry	1x	9D01046	04/01/09 17:25	04/01/09 23:00	
Surrogate(s): 4-BFB (FID)			151%		80 - 140 %	"			"	ZX
BSD0016-04 (Area2-E6-12)		Soil		Sampled: 04/01/09 09:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	49.4	mg/kg dry	1x	9D01046	04/01/09 17:25	04/01/09 23:32	
Surrogate(s): 4-BFB (FID)			153%		80 - 140 %	"			"	ZX
BSD0016-05 (Area2-E7-11.5)		Soil		Sampled: 04/01/09 09:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	45.3	mg/kg dry	1x	9D01046	04/01/09 17:25	04/02/09 00:04	
Surrogate(s): 4-BFB (FID)			155%		80 - 140 %	"			"	ZX
BSD0016-06 (Area1-B11-14)		Soil		Sampled: 04/01/09 11:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	7.09	mg/kg dry	1x	9D01046	04/01/09 17:25	04/02/09 02:12	
Surrogate(s): 4-BFB (FID)			130%		80 - 140 %	"			"	
BSD0016-07 (Area1-B12-14)		Soil		Sampled: 04/01/09 11:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	76.0	mg/kg dry	1x	9D01046	04/01/09 17:25	04/02/09 02:44	
Surrogate(s): 4-BFB (FID)			157%		80 - 140 %	"			"	ZX
BSD0016-08 (Area1-B13-14)		Soil		Sampled: 04/01/09 11:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	79.3	----	52.9	mg/kg dry	1x	9D01046	04/01/09 17:25	04/02/09 03:16	
Surrogate(s): 4-BFB (FID)			154%		80 - 140 %	"			"	ZX

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-09 (Area1-B14-14)		Soil			Sampled: 04/01/09 13:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	175	----	50.1	mg/kg dry	1x	9D01046	04/01/09 17:25	04/02/09 03:48	
<i>Surrogate(s): 4-BFB (FID)</i>			155%		80 - 140 %	"				ZX
BSD0016-10 (Area1-C13-14)		Soil			Sampled: 04/01/09 13:20					
Gasoline Range Hydrocarbons	NWTPH-Gx	186	----	37.9	mg/kg dry	1x	9D01046	04/01/09 17:25	04/02/09 04:20	
<i>Surrogate(s): 4-BFB (FID)</i>			176%		80 - 140 %	"				ZX
BSD0016-11 (Area1-C12-14)		Soil			Sampled: 04/01/09 13:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	68.6	mg/kg dry	1x	9D01046	04/01/09 17:25	04/02/09 04:52	
<i>Surrogate(s): 4-BFB (FID)</i>			155%		80 - 140 %	"				ZX

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-01 (Area2-F5-11)		Soil		Sampled: 04/01/09 08:00						
Lube Oil	NWTPH-Dx	ND	----	56.1	mg/kg dry	1x	9D01045	04/01/09 17:06	04/01/09 21:41	
Kerosene	"	ND	----	22.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	22.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			87.8%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0016-02 (Area2-F6-12)		Soil		Sampled: 04/01/09 08:15						
Lube Oil	NWTPH-Dx	329	----	112	mg/kg dry	1x	9D01045	04/01/09 17:06	04/01/09 22:03	
Kerosene	"	ND	----	44.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	105	----	44.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			81.1%		54 - 148 %	"				"
<i>Octacosane</i>			97.4%		62 - 142 %	"				"
BSD0016-03 (Area2-E5-11.5)		Soil		Sampled: 04/01/09 09:10						
Lube Oil	NWTPH-Dx	163	----	88.2	mg/kg dry	1x	9D01045	04/01/09 17:06	04/01/09 22:26	
Kerosene	"	ND	----	35.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	73.8	----	35.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			79.1%		54 - 148 %	"				"
<i>Octacosane</i>			99.5%		62 - 142 %	"				"
BSD0016-04 (Area2-E6-12)		Soil		Sampled: 04/01/09 09:30						
Lube Oil	NWTPH-Dx	149	----	113	mg/kg dry	1x	9D01045	04/01/09 17:06	04/01/09 22:47	
Kerosene	"	ND	----	45.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	90.8	----	45.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			79.5%		54 - 148 %	"				"
<i>Octacosane</i>			94.2%		62 - 142 %	"				"
BSD0016-05 (Area2-E7-11.5)		Soil		Sampled: 04/01/09 09:45						
Lube Oil	NWTPH-Dx	145	----	106	mg/kg dry	1x	9D01045	04/01/09 17:06	04/01/09 23:09	
Kerosene	"	ND	----	42.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	67.4	----	42.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			87.4%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-06 (Area1-B11-14)		Soil		Sampled: 04/01/09 11:10						
Lube Oil	NWTPH-Dx	ND	----	33.1	mg/kg dry	1x	9D01045	04/01/09 17:06	04/02/09 00:57	
Kerosene	"	ND	----	13.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.0%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0016-07 (Area1-B12-14)		Soil		Sampled: 04/01/09 11:30						
Lube Oil	NWTPH-Dx	242	----	163	mg/kg dry	1x	9D01045	04/01/09 17:06	04/02/09 01:19	
Kerosene	"	ND	----	65.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	126	----	65.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			88.8%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0016-08 (Area1-B13-14)		Soil		Sampled: 04/01/09 11:45						
Lube Oil	NWTPH-Dx	ND	----	121	mg/kg dry	1x	9D01045	04/01/09 17:06	04/02/09 01:41	
Kerosene	"	174	----	48.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	241	----	48.3	"	"	"	"	"	QP
<i>Surrogate(s): 2-FBP</i>			85.6%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSD0016-09 (Area1-B14-14)		Soil		Sampled: 04/01/09 13:00						
Lube Oil	NWTPH-Dx	252	----	111	mg/kg dry	1x	9D01045	04/01/09 17:06	04/02/09 02:03	
Kerosene	"	396	----	44.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	755	----	44.5	"	"	"	"	"	QP
<i>Surrogate(s): 2-FBP</i>			80.8%		54 - 148 %	"				"
<i>Octacosane</i>			94.6%		62 - 142 %	"				"
BSD0016-10 (Area1-C13-14)		Soil		Sampled: 04/01/09 13:20						
Lube Oil	NWTPH-Dx	423	----	88.2	mg/kg dry	1x	9D01045	04/01/09 17:06	04/02/09 02:24	
Kerosene	"	161	----	35.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	353	----	35.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			84.7%		54 - 148 %	"				"
<i>Octacosane</i>			96.7%		62 - 142 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/02/09 17:02

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-11 (Area1-C12-14)		Soil		Sampled: 04/01/09 13:50						
Kerosene	NWTPH-Dx	692	----	58.1	mg/kg dry	1x	9D01045	04/01/09 17:06	04/02/09 02:46	Q6
Diesel Range Hydrocarbons	"	4870	----	58.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>		83.7%		54 - 148 %		"			"	
<i>Octacosane</i>		87.3%		62 - 142 %		"			"	
BSD0016-11RE1 (Area1-C12-14)		Soil		Sampled: 04/01/09 13:50						
Lube Oil	NWTPH-Dx	11300	----	1450	mg/kg dry	10x	9D01045	04/01/09 17:06	04/02/09 11:59	
<i>Surrogate(s): 2-FBP</i>		75.3%		54 - 148 %		"			"	
<i>Octacosane</i>		135%		62 - 142 %		"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/02/09 17:02

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-01	(Area2-F5-11)	Soil		Sampled: 04/01/09 08:00						
Lead	EPA 6020	15.5	----	1.13	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 08:05	
BSD0016-02	(Area2-F6-12)	Soil		Sampled: 04/01/09 08:15						
Lead	EPA 6020	42.3	----	2.16	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 08:11	
BSD0016-03	(Area2-E5-11.5)	Soil		Sampled: 04/01/09 09:10						
Lead	EPA 6020	61.8	----	1.76	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 08:36	
BSD0016-04	(Area2-E6-12)	Soil		Sampled: 04/01/09 09:30						
Lead	EPA 6020	83.5	----	2.20	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 08:42	
BSD0016-05	(Area2-E7-11.5)	Soil		Sampled: 04/01/09 09:45						
Lead	EPA 6020	94.0	----	2.06	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 08:48	
BSD0016-06	(Area1-B11-14)	Soil		Sampled: 04/01/09 11:10						
Lead	EPA 6020	3.56	----	0.644	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 08:55	
BSD0016-07	(Area1-B12-14)	Soil		Sampled: 04/01/09 11:30						
Lead	EPA 6020	136	----	3.26	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 09:01	
BSD0016-08	(Area1-B13-14)	Soil		Sampled: 04/01/09 11:45						
Lead	EPA 6020	11.6	----	2.46	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 09:07	
BSD0016-09	(Area1-B14-14)	Soil		Sampled: 04/01/09 13:00						
Lead	EPA 6020	13.1	----	2.18	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 09:13	
BSD0016-10	(Area1-C13-14)	Soil		Sampled: 04/01/09 13:20						
Lead	EPA 6020	40.1	----	1.79	mg/kg dry	1x	9D01050	04/01/09 21:34	04/02/09 09:20	
BSD0016-11RE1	(Area1-C12-14)	Soil		Sampled: 04/01/09 13:50						
Lead	EPA 6020	2330	----	14.1	mg/kg dry	5x	9D01050	04/01/09 21:34	04/02/09 09:57	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/02/09 17:02

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-01RE1 (Area2-F5-11)		Soil		Sampled: 04/01/09 08:00						A-01
Benzene	EPA 8260B	ND	----	0.00293	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 23:23	
Ethylbenzene	"	ND	----	0.00782	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00195	"	"	"	"	"	C
Naphthalene	"	ND	----	0.0195	"	"	"	"	"	I2
Toluene	"	ND	----	0.00293	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.00977	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.00977	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0195	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				139%		70 - 140 %	"		"	
<i>Toluene-d8</i>				112%		70 - 130 %	"		"	I2
<i>4-BFB</i>				125%		70 - 130 %	"		"	I2
BSD0016-02 (Area2-F6-12)		Soil		Sampled: 04/01/09 08:15						A-01
Benzene	EPA 8260B	ND	----	0.00564	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 19:07	
Ethylbenzene	"	ND	----	0.0150	"	"	"	"	"	
Naphthalene	"	ND	----	0.0376	"	"	"	"	"	I2
Toluene	"	ND	----	0.00564	"	"	"	"	"	
o-Xylene	"	ND	----	0.0188	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.0188	"	"	"	"	"	
Total Xylenes	"	ND	----	0.0376	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				129%		70 - 140 %	"		"	
<i>Toluene-d8</i>				109%		70 - 130 %	"		"	
<i>4-BFB</i>				118%		70 - 130 %	"		"	I2
BSD0016-03 (Area2-E5-11.5)		Soil		Sampled: 04/01/09 09:10						A-01
Benzene	EPA 8260B	ND	----	0.00445	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 19:33	
Ethylbenzene	"	ND	----	0.0119	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00297	"	"	"	"	"	C
Naphthalene	"	ND	----	0.0297	"	"	"	"	"	I2
Toluene	"	ND	----	0.00445	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0148	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0148	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0297	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				138%		70 - 140 %	"		"	
<i>Toluene-d8</i>				114%		70 - 130 %	"		"	I2
<i>4-BFB</i>				120%		70 - 130 %	"		"	I2

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/02/09 17:02

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-04 (Area2-E6-12)		Soil		Sampled: 04/01/09 09:30						A-01
Benzene	EPA 8260B	ND	----	0.00587	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 19:58	
Ethylbenzene	"	ND	----	0.0157	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.0392	"	"	"	"	"	I2
Toluene	"	ND	----	0.00587	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0196	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0196	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0392	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>132%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>121%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>123%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
BSD0016-05 (Area2-E7-11.5)		Soil		Sampled: 04/01/09 09:45						I2, A-01
Benzene	EPA 8260B	ND	----	0.00456	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 20:24	
Ethylbenzene	"	ND	----	0.0122	"	"	"	"	"	
Naphthalene	"	ND	----	0.0304	"	"	"	"	"	
Toluene	"	ND	----	0.00456	"	"	"	"	"	
o-Xylene	"	ND	----	0.0152	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.0152	"	"	"	"	"	
Total Xylenes	"	ND	----	0.0304	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>144%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	<i>Z1</i>
<i>Toluene-d8</i>			<i>120%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>123%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
BSD0016-06 (Area1-B11-14)		Soil		Sampled: 04/01/09 11:10						P13
Benzene	EPA 8260B	ND	----	0.000919	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 20:49	
Ethylbenzene	"	ND	----	0.00245	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000613	"	"	"	"	"	C
Naphthalene	"	ND	----	0.00613	"	"	"	"	"	
Toluene	"	ND	----	0.000919	"	"	"	"	"	
o-Xylene	"	ND	----	0.00306	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00306	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00613	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>139%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>102%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>107%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0016-07 (Area1-B12-14)	Soil		Sampled: 04/01/09 11:30								A-01
Benzene	EPA 8260B	ND	----	0.00619	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 21:15		
Ethylbenzene	"	ND	----	0.0165	"	"	"	"	"	I2	
Methyl tert-butyl ether	"	ND	----	0.00412	"	"	"	"	"	C	
Naphthalene	"	ND	----	0.0412	"	"	"	"	"	I2	
Toluene	"	ND	----	0.00619	"	"	"	"	"	I2	
o-Xylene	"	ND	----	0.0206	"	"	"	"	"	I2	
m,p-Xylene	"	ND	----	0.0206	"	"	"	"	"	I2	
Total Xylenes	"	ND	----	0.0412	"	"	"	"	"	I2	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>124%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>		
	<i>Toluene-d8</i>		<i>122%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>	
	<i>4-BFB</i>		<i>122%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>	
BSD0016-08 (Area1-B13-14)	Soil		Sampled: 04/01/09 11:45								A-01
Benzene	EPA 8260B	ND	----	0.00610	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 21:41		
Ethylbenzene	"	ND	----	0.0163	"	"	"	"	"	I2	
Methyl tert-butyl ether	"	ND	----	0.00407	"	"	"	"	"	C	
o-Xylene	"	ND	----	0.0203	"	"	"	"	"	I2	
m,p-Xylene	"	ND	----	0.0203	"	"	"	"	"	I2	
Total Xylenes	"	ND	----	0.0407	"	"	"	"	"	I2	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>144%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	<i>Z1</i>	
	<i>Toluene-d8</i>		<i>129%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>	
	<i>4-BFB</i>		<i>130%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>	
BSD0016-09 (Area1-B14-14)	Soil		Sampled: 04/01/09 13:00								A-01
Benzene	EPA 8260B	ND	----	0.00521	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 22:06		
Ethylbenzene	"	ND	----	0.0139	"	"	"	"	"	I2	
Methyl tert-butyl ether	"	ND	----	0.00347	"	"	"	"	"	C	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>138%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>		
	<i>Toluene-d8</i>		<i>129%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>	
	<i>4-BFB</i>		<i>130%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-10 (Area1-C13-14)		Soil		Sampled: 04/01/09 13:20						I2, A-01
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00240	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 22:32	C
Surrogate(s):	1,2-DCA-d4		167%		70 - 140 %	"			"	ZX
	Toluene-d8		118%		70 - 130 %	"			"	
	4-BFB		115%		70 - 130 %	"			"	
BSD0016-11 (Area1-C12-14)		Soil		Sampled: 04/01/09 13:50						A-01
Benzene	EPA 8260B	ND	----	0.00710	mg/kg dry	1x	9D01025	04/01/09 16:00	04/01/09 22:58	
Ethylbenzene	"	ND	----	0.0189	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00473	"	"	"	"	"	C
Naphthalene	"	ND	----	0.0473	"	"	"	"	"	I2
Surrogate(s):	1,2-DCA-d4		143%		70 - 140 %	"			"	Z1
	Toluene-d8		120%		70 - 130 %	"			"	I2
	4-BFB		127%		70 - 130 %	"			"	I2

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-02 (Area2-F6-12)		Soil		Sampled: 04/01/09 08:15						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.531	mg/kg dry	1x	9D01017	04/01/09 16:00	04/01/09 19:07	
<i>Surrogate(s): 1,2-DCA-d4</i>			105%		75 - 125 %	"				"
<i>Toluene-d8</i>			84.1%		75 - 125 %	"				"
<i>4-BFB</i>			94.0%		75 - 125 %	"				"
BSD0016-04 (Area2-E6-12)		Soil		Sampled: 04/01/09 09:30						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.493	mg/kg dry	1x	9D01017	04/01/09 16:00	04/01/09 20:00	
<i>Surrogate(s): 1,2-DCA-d4</i>			107%		75 - 125 %	"				"
<i>Toluene-d8</i>			83.2%		75 - 125 %	"				"
<i>4-BFB</i>			95.6%		75 - 125 %	"				"
BSD0016-05 (Area2-E7-11.5)		Soil		Sampled: 04/01/09 09:45						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.458	mg/kg dry	1x	9D01017	04/01/09 16:00	04/01/09 20:27	
<i>Surrogate(s): 1,2-DCA-d4</i>			108%		75 - 125 %	"				"
<i>Toluene-d8</i>			82.2%		75 - 125 %	"				"
<i>4-BFB</i>			94.0%		75 - 125 %	"				"
BSD0016-08 (Area1-B13-14)		Soil		Sampled: 04/01/09 11:45						
Naphthalene	EPA 8260B	ND	----	21.6	mg/kg dry	1x	9D01017	04/01/09 16:00	04/01/09 21:48	
Toluene	"	ND	----	1.08	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			109%		75 - 125 %	"				"
<i>Toluene-d8</i>			80.7%		75 - 125 %	"				"
<i>4-BFB</i>			91.2%		75 - 125 %	"				"
BSD0016-09 (Area1-B14-14)		Soil		Sampled: 04/01/09 13:00						
Naphthalene	EPA 8260B	ND	----	19.8	mg/kg dry	1x	9D01017	04/01/09 16:00	04/01/09 22:15	
Toluene	"	ND	----	0.992	"	"	"	"	"	
o-Xylene	"	ND	----	0.992	"	"	"	"	"	
m,p-Xylene	"	ND	----	1.98	"	"	"	"	"	
Xylenes (total)	"	ND	----	2.97	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			108%		75 - 125 %	"				"
<i>Toluene-d8</i>			81.5%		75 - 125 %	"				"
<i>4-BFB</i>			91.4%		75 - 125 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/02/09 17:02

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-10 (Area1-C13-14)		Soil		Sampled: 04/01/09 13:20						
Benzene	EPA 8260B	ND	----	0.156	mg/kg dry	1x	9D01017	04/01/09 16:00	04/01/09 22:41	
Ethylbenzene	"	2.00	----	0.780	"	"	"	"	"	
Naphthalene	"	ND	----	15.6	"	"	"	"	"	
Toluene	"	0.780	----	0.780	"	"	"	"	"	
o-Xylene	"	2.19	----	0.780	"	"	"	"	"	
m,p-Xylene	"	6.64	----	1.56	"	"	"	"	"	
Xylenes (total)	"	8.83	----	2.34	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				108%		75 - 125 %	"			"
<i>Toluene-d8</i>				82.6%		75 - 125 %	"			"
<i>4-BFB</i>				91.1%		75 - 125 %	"			"

BSD0016-11 (Area1-C12-14)		Soil		Sampled: 04/01/09 13:50						
Toluene	EPA 8260B	ND	----	1.35	mg/kg dry	1x	9D01017	04/01/09 16:00	04/01/09 23:08	
o-Xylene	"	ND	----	1.35	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.70	"	"	"	"	"	
Xylenes (total)	"	ND	----	4.05	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				110%		75 - 125 %	"			"
<i>Toluene-d8</i>				83.4%		75 - 125 %	"			"
<i>4-BFB</i>				92.9%		75 - 125 %	"			"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-01 (Area2-F5-11)		Soil			Sampled: 04/01/09 08:00					
Dry Weight	BSOPSP003R0 8	44.1	----	1.00	%	1x	9D01026	04/01/09 12:39	04/02/09 00:00	
BSD0016-02 (Area2-F6-12)		Soil			Sampled: 04/01/09 08:15					
Dry Weight	BSOPSP003R0 8	22.1	----	1.00	%	1x	9D01026	04/01/09 12:39	04/02/09 00:00	
BSD0016-03 (Area2-E5-11.5)		Soil			Sampled: 04/01/09 09:10					
Dry Weight	BSOPSP003R0 8	27.9	----	1.00	%	1x	9D01026	04/01/09 12:39	04/02/09 00:00	
BSD0016-04 (Area2-E6-12)		Soil			Sampled: 04/01/09 09:30					
Dry Weight	BSOPSP003R0 8	22.1	----	1.00	%	1x	9D01026	04/01/09 12:39	04/02/09 00:00	
BSD0016-05 (Area2-E7-11.5)		Soil			Sampled: 04/01/09 09:45					
Dry Weight	BSOPSP003R0 8	23.5	----	1.00	%	1x	9D01026	04/01/09 12:39	04/02/09 00:00	
BSD0016-06 (Area1-B11-14)		Soil			Sampled: 04/01/09 11:10					
Dry Weight	BSOPSP003R0 8	74.6	----	1.00	%	1x	9D01026	04/01/09 12:39	04/02/09 00:00	
BSD0016-07 (Area1-B12-14)		Soil			Sampled: 04/01/09 11:30					
Dry Weight	BSOPSP003R0 8	15.2	----	1.00	%	1x	9D01026	04/01/09 12:39	04/02/09 00:00	
BSD0016-08 (Area1-B13-14)		Soil			Sampled: 04/01/09 11:45					
Dry Weight	BSOPSP003R0 8	20.7	----	1.00	%	1x	9D01026	04/01/09 12:39	04/02/09 00:00	
BSD0016-09 (Area1-B14-14)		Soil			Sampled: 04/01/09 13:00					
Dry Weight	BSOPSP003R0 8	22.1	----	1.00	%	1x	9D01026	04/01/09 14:00	04/02/09 00:00	
BSD0016-10 (Area1-C13-14)		Soil			Sampled: 04/01/09 13:20					
Dry Weight	BSOPSP003R0 8	27.9	----	1.00	%	1x	9D01026	04/01/09 14:00	04/02/09 00:00	
BSD0016-11 (Area1-C12-14)		Soil			Sampled: 04/01/09 13:50					

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/02/09 17:02
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0016-11	(Area1-C12-14)									
		Soil					Sampled: 04/01/09 13:50			
Dry Weight	BSOPSPL003R0 8	16.9	----	1.00	%	1x	9D01026	04/01/09 14:00	04/02/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01046 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D01046-BLK1)										Extracted: 04/01/09 17:25				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 19:48	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.3%</i>			<i>Limits: 80-140%</i>	<i>"</i>							04/01/09 19:48	
LCS (9D01046-BS1)										Extracted: 04/01/09 17:25				
Gasoline Range Hydrocarbons	NWTPH-Gx	48.8	---	5.00	mg/kg wet	1x	--	50.0	97.6%	(80-120)	--	--	04/01/09 20:20	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>			<i>Limits: 80-140%</i>	<i>"</i>							04/01/09 20:20	
Duplicate (9D01046-DUP1)										QC Source: BSD0016-01			Extracted: 04/01/09 17:25	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	21.1	mg/kg dry	1x	ND	--	--	--	NR (40)		04/01/09 21:23	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 136%</i>			<i>Limits: 80-140%</i>	<i>"</i>							04/01/09 21:23	
Duplicate (9D01046-DUP2)										QC Source: BSD0016-02			Extracted: 04/01/09 17:25	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.6	mg/kg dry	1x	ND	--	--	--	NR (40)		04/01/09 22:28	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 154%</i>			<i>Limits: 80-140%</i>	<i>"</i>							04/01/09 22:28	ZX
Matrix Spike (9D01046-MS1)										QC Source: BSD0016-01			Extracted: 04/01/09 17:25	
Gasoline Range Hydrocarbons	NWTPH-Gx	219	---	21.1	mg/kg dry	1x	ND	147	149%	(75-130)	--	--	04/02/09 00:36	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 149%</i>			<i>Limits: 80-140%</i>	<i>"</i>							04/02/09 00:36	ZX

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01045 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D01045-BLK1)

Extracted: 04/01/09 17:05

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 19:55	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery:	87.3%	Limits: 54-148%		"							04/01/09 19:55	
Octacosane		Recovery:	105%	Limits: 62-142%		"							"	

LCS (9D01045-BS1)

Extracted: 04/01/09 17:05

Lube Oil	NWTPH-Dx	71.7	---	25.0	mg/kg wet	1x	--	66.7	108%	(63-125)	--	--	04/01/09 20:16	
Diesel Range Hydrocarbons	"	75.0	---	10.0	"	"	--	"	113%	(58-140)	--	--	"	
Surrogate(s): 2-FBP		Recovery:	90.7%	Limits: 54-148%		"							04/01/09 20:16	
Octacosane		Recovery:	107%	Limits: 62-142%		"							"	

Duplicate (9D01045-DUP1)

QC Source: BSD0016-01

Extracted: 04/01/09 17:05

Lube Oil	NWTPH-Dx	ND	---	56.5	mg/kg dry	1x	ND	--	--	--	20.5%	(50)	04/01/09 20:37	
Kerosene	"	ND	---	22.6	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	22.6	"	"	ND	--	--	--	27.0%	"	"	
Surrogate(s): 2-FBP		Recovery:	87.7%	Limits: 54-148%		"							04/01/09 20:37	
Octacosane		Recovery:	104%	Limits: 62-142%		"							"	

Duplicate (9D01045-DUP2)

QC Source: BSD0016-11

Extracted: 04/01/09 17:05

Kerosene	NWTPH-Dx	1090	---	58.1	mg/kg dry	1x	692	--	--	--	45.0%	(50)	04/01/09 20:58	Q6
Surrogate(s): 2-FBP		Recovery:	74.1%	Limits: 54-148%		"							04/01/09 20:58	
Octacosane		Recovery:	72.5%	Limits: 62-142%		"							"	

Duplicate (9D01045-DUP3)

QC Source: BSD0016-11

Extracted: 04/01/09 17:05

Lube Oil	NWTPH-Dx	18100	---	2900	mg/kg dry	20x	11800	--	--	--	41.8%	(50)	04/02/09 11:38	
Diesel Range Hydrocarbons	"	7920	---	1160	"	"	4870	--	--	--	47.8%	"	"	Q6
Surrogate(s): 2-FBP		Recovery:	59.1%	Limits: 54-148%		"							04/02/09 11:38	
Octacosane		Recovery:	169%	Limits: 62-142%		"							"	ZX

Matrix Spike (9D01045-MS1)

QC Source: BSD0016-01

Extracted: 04/01/09 17:05

Lube Oil	NWTPH-Dx	158	---	56.3	mg/kg dry	1x	14.7	150	95.3%	(26-150)	--	--	04/01/09 21:20	
Diesel Range Hydrocarbons	"	151	---	22.5	"	"	7.51	"	95.6%	(46-155)	--	--	"	
Surrogate(s): 2-FBP		Recovery:	84.5%	Limits: 54-148%		"							04/01/09 21:20	
Octacosane		Recovery:	99.8%	Limits: 62-142%		"							"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01050 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D01050-BLK1)								Extracted: 04/01/09 21:34						
Lead	EPA 6020	ND	---	0.505	mg/kg wet	1x	--	--	--	--	--	--	04/02/09 07:34	
LCS (9D01050-BS1)								Extracted: 04/01/09 21:34						
Lead	EPA 6020	40.6	---	0.510	mg/kg wet	1x	--	40.8	99.5%	(80-120)	--	--	04/02/09 07:40	
Duplicate (9D01050-DUP1)				QC Source: BSD0016-01				Extracted: 04/01/09 21:34						
Lead	EPA 6020	17.7	---	1.15	mg/kg dry	1x	15.5	--	--	--	13.5% (20)	--	04/02/09 07:59	
Matrix Spike (9D01050-MS1)				QC Source: BSD0016-01				Extracted: 04/01/09 21:34						
Lead	EPA 6020	104	---	1.12	mg/kg dry	1x	15.5	89.8	98.7%	(75-125)	--	--	04/02/09 07:52	
Post Spike (9D01050-PS1)				QC Source: BSD0016-01				Extracted: 04/01/09 21:34						
Lead	EPA 6020	0.115	---		ug/ml	1x	0.0136	0.100	101%	(80-120)	--	--	04/02/09 07:46	

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/02/09 17:02

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D01025-BLK1)													Extracted: 04/01/09 13:30	
Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 15:38	C
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	C
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759381	04/02/09 17:02
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D01025-BLK1)													Extracted: 04/01/09 13:30	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 15:38	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	C
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	C
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	C
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	C
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>132%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>							<i>04/01/09 15:38</i>	
	<i>Toluene-d8</i>		<i>97.6%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/02/09 17:02
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D01025-BS1)														
Extracted: 04/01/09 13:30														
Acetone	EPA 8260B	0.612	---	0.0400	mg/kg wet	1x	--	0.500	122%	(60-140)	--	--	04/01/09 14:47	C8
Benzene	"	0.0461	---	0.00150	"	"	--	0.0500	92.2%	(70-125)	--	--	"	
2-Butanone	"	0.618	---	0.0300	"	"	--	0.500	124%	(60-140)	--	--	"	C8
Carbon disulfide	"	0.0425	---	0.00300	"	"	--	0.0500	85.1%	(70-130)	--	--	"	
Chlorobenzene	"	0.0437	---	0.00200	"	"	--	"	87.4%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0500	---	0.00200	"	"	--	"	99.9%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0494	---	0.00300	"	"	--	"	98.7%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0496	---	0.00300	"	"	--	"	99.2%	(75-125)	--	--	"	
Ethylbenzene	"	0.0438	---	0.00400	"	"	--	"	87.7%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0474	---	0.0100	"	"	--	"	94.7%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.567	---	0.0300	"	"	--	0.500	113%	(60-140)	--	--	"	C8
Tetrachloroethene	"	0.0418	---	0.00200	"	"	--	0.0500	83.7%	(70-125)	--	--	"	
Toluene	"	0.0440	---	0.00150	"	"	--	"	87.9%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0492	---	0.00250	"	"	--	"	98.3%	(70-130)	--	--	"	
Trichloroethene	"	0.0454	---	0.00250	"	"	--	"	90.8%	(70-125)	--	--	"	
Total Xylenes	"	0.128	---	0.0100	"	"	--	0.150	85.4%	(70-130)	--	--	"	
Surrogate(s): 1,2-DCA-d4		Recovery: 113%		Limits: 70-140%		"						04/01/09 14:47		
Toluene-d8		96.2%		70-130%		"						"		
4-BFB		104%		70-130%		"						"		

LCS Dup (9D01025-BSD1)														
Extracted: 04/01/09 13:30														
Acetone	EPA 8260B	0.588	---	0.0400	mg/kg wet	1x	--	0.500	118%	(60-140)	3.99% (30)		04/01/09 15:13	C8
Benzene	"	0.0477	---	0.00150	"	"	--	0.0500	95.3%	(70-125)	3.33%	"	"	
2-Butanone	"	0.629	---	0.0300	"	"	--	0.500	126%	(60-140)	1.83%	"	"	C8
Carbon disulfide	"	0.0420	---	0.00300	"	"	--	0.0500	83.9%	(70-130)	1.40%	"	"	
Chlorobenzene	"	0.0463	---	0.00200	"	"	--	"	92.7%	(70-125)	5.86%	"	"	
1,1-Dichloroethane	"	0.0499	---	0.00200	"	"	--	"	99.9%	(75-125)	0.0200%	"	"	
1,1-Dichloroethene	"	0.0497	---	0.00300	"	"	--	"	99.4%	(70-130)	0.626%	"	"	
cis-1,2-Dichloroethene	"	0.0499	---	0.00300	"	"	--	"	99.9%	(75-125)	0.683%	"	"	
Ethylbenzene	"	0.0470	---	0.00400	"	"	--	"	94.1%	(70-125)	7.04%	"	"	
Hexachlorobutadiene	"	0.0467	---	0.0100	"	"	--	"	93.5%	(70-130)	1.34%	"	"	
4-Methyl-2-pentanone	"	0.575	---	0.0300	"	"	--	0.500	115%	(60-140)	1.37%	"	"	C8
Tetrachloroethene	"	0.0449	---	0.00200	"	"	--	0.0500	89.7%	(70-125)	6.94%	"	"	
Toluene	"	0.0479	---	0.00150	"	"	--	"	95.8%	"	8.56%	"	"	
1,1,1-Trichloroethane	"	0.0494	---	0.00250	"	"	--	"	98.9%	(70-130)	0.568%	"	"	
Trichloroethene	"	0.0469	---	0.00250	"	"	--	"	93.8%	(70-125)	3.16%	"	"	
Total Xylenes	"	0.138	---	0.0100	"	"	--	0.150	91.7%	(70-130)	7.10%	"	"	
Surrogate(s): 1,2-DCA-d4		Recovery: 109%		Limits: 70-140%		"						04/01/09 15:13		
Toluene-d8		100%		70-130%		"						"		

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/02/09 17:02

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9D01025

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9D01025-BSD1)

Extracted: 04/01/09 13:30

Surrogate(s): 4-BFB

Recovery: 105%

Limits: 70-130% 1x

04/01/09 15:13

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/02/09 17:02

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01017 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D01017-BLK1)													Extracted: 04/01/09 13:30	
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/01/09 16:14	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/01/09 16:14</i>	
<i>Toluene-d8</i>		<i>85.5%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>96.2%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9D01017-BS1)													Extracted: 04/01/09 13:30	
Benzene	EPA 8260B	3.97	---	0.0200	mg/kg wet	1x	--	4.00	99.2%	(75-125)	--	--	04/01/09 14:45	
Ethylbenzene	"	3.63	---	0.100	"	"	--	"	90.8%	"	--	--	"	
Methyl tert-butyl ether	"	4.96	---	0.0500	"	"	--	"	124%	"	--	--	"	
Naphthalene	"	4.57	---	2.00	"	"	--	"	114%	(60-140)	--	--	"	
Toluene	"	3.34	---	0.100	"	"	--	"	83.4%	(75-125)	--	--	"	
o-Xylene	"	3.32	---	0.100	"	"	--	"	83.1%	"	--	--	"	
m,p-Xylene	"	6.94	---	0.200	"	"	--	8.00	86.8%	"	--	--	"	
Xylenes (total)	"	10.3	---	0.300	"	"	--	12.0	85.6%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/01/09 14:45</i>	
<i>Toluene-d8</i>		<i>82.4%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>94.4%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D01017-BSD1)													Extracted: 04/01/09 13:30	
Benzene	EPA 8260B	3.83	---	0.0200	mg/kg wet	1x	--	4.00	95.7%	(75-125)	3.62% (20)		04/01/09 15:12	
Ethylbenzene	"	3.48	---	0.100	"	"	--	"	87.0%	"	4.33%	"	"	
Methyl tert-butyl ether	"	4.98	---	0.0500	"	"	--	"	124%	"	0.342%	"	"	
Naphthalene	"	4.57	---	2.00	"	"	--	"	114%	(60-140)	0.0875%	"	"	
Toluene	"	3.28	---	0.100	"	"	--	"	82.0%	(75-125)	1.66%	"	"	
o-Xylene	"	3.28	---	0.100	"	"	--	"	81.9%	"	1.42%	"	"	
m,p-Xylene	"	6.73	---	0.200	"	"	--	8.00	84.1%	"	3.19%	"	"	
Xylenes (total)	"	10.0	---	0.300	"	"	--	12.0	83.4%	"	2.61%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/01/09 15:12</i>	
<i>Toluene-d8</i>		<i>85.5%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>94.4%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/02/09 17:02
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01026 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D01026-BLK1)										Extracted: 04/01/09 12:39				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/02/09 00:00	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/02/09 17:02

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/02/09 17:02

Notes and Definitions

Report Specific Notes:

- A-01 - Only analytes without detections will be reported with additional A-01 qualifier: Internal Standard and/or surrogate was outside method control limits biasing results high. Reported analytes ND; data not affected.
- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I2 - Internal Standard recovery was outside of method limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z1 - Surrogate recovery was above acceptance limits.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: *BA0006*

CLIENT: <i>CONCO PHILLIPS</i>		INVOICE TO: <i>CP</i>				TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: <i>24 hr</i> * Turnaround Requests less than standard may incur Rush Charges.			
REPORT TO: <i>Wmcp Staff</i> ADDRESS:		P.O. NUMBER:							
PHONE: FAX:		PRESERVATIVE							
PROJECT NAME: <i>Wmcp Phase II</i>		REQUESTED ANALYSES							
PROJECT NUMBER:									
SAMPLED BY: <i>MATTHEW MYKOBIN</i>									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NUTR CON	NUTR Dx (w/Analytical Cu)	BALANCE	LEAD	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 AREA 2-F5-11	<i>9-1-09 / 0800</i>	X	X	X	X	S	6	<i>RED = Oppm</i>	<i>01</i>
2 " FG-12	<i>" / 0815</i>						6	<i>0 ppm</i>	<i>02</i>
3 " E5-11.5	<i>" / 0910</i>						6	<i>0 ppm</i>	<i>03</i>
4 " E6-12	<i>" / 0930</i>						6	<i>0 ppm</i>	<i>04</i>
5 " E7-11.5	<i>" / 0945</i>						6	<i>0 ppm</i>	<i>05</i>
6 AREA 1-B11-14	<i>" / 1110</i>						5	<i>< 1 ppm</i>	<i>06</i>
7 AREA 1-B12-14	<i>" / 1130</i>						6	<i>waco</i>	<i>07</i>
8 AREA 1-B13-14	<i>" / 1145</i>						6	<i>waco</i>	<i>08</i>
9 AREA 1 B14-14	<i>" / 1300</i>						6	<i>1.2 ppm waco</i>	<i>09</i>
10 AREA 1 C13-14	<i>" / 1320</i>						6	<i>24 ppm waco</i>	<i>10</i>
RELEASED BY: <i>Mat Myk</i>	DATE: <i>9-1-09</i>	RECEIVED BY: <i>[Signature]</i>		DATE: <i>9/1/09</i>		PRINT NAME: <i>Francisco Long, Jr</i>		FIRM: <i>TA-SEA</i>	
PRINT NAME: <i>MATTHEW MYKOBIN</i>	FIRM: <i>WRS</i>	DATE: <i>1540</i>		DATE: <i>1540</i>		DATE: <i>1540</i>		DATE: <i>1540</i>	
RELEASED BY:	FIRM:	DATE:		DATE:		DATE:		DATE:	
PRINT NAME:	FIRM:	DATE:		DATE:		DATE:		DATE:	
ADDITIONAL REMARKS: <i>*Include Napthalenet MTBE</i>								TEMP: <i>3.2</i>	PAGE <i>1</i> OF <i>2</i>

@ lab 10:50 w/ TAL-1000(0408)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: 5200016

CLIENT: <u>CONOCO PHELLERS</u>		INVOICE TO:				TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> <input type="checkbox"/> OTHER Specify: <u>24 hr</u> <small>* Turnaround Requests less than standard may incur Rush Charges.</small>							
REPORT TO: <u>WMCP STAFF</u> ADDRESS:		CP P.O. NUMBER:											
PHONE: FAX:		PRESERVATIVE											
PROJECT NAME: <u>WMCP PHASE II</u>		REQUESTED ANALYSES											
PROJECT NUMBER:													
SAMPLED BY: <u>MATTHEW MCKIBBIN</u>													
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	<u>MATTH EX</u>	<u>MATTH D. (Ard/S/12 cel)</u>	<u>8260 B</u>	<u>LEAD</u>					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
<u>Area 1-C12-14</u>	<u>4-1-09/1350</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<u>S</u>	<u>6</u>	<u>WOOD</u> <u>AID = 1.8 ppm</u>	<u>//</u>
2													
3													
4													
5													
6													
7													
8													
9													
10													
RELEASED BY: <u>Mat McK</u>		DATE: <u>4-1-09</u>		RECEIVED BY: <u>Francisco Lunsy Jr.</u>		DATE: <u>4/1/09</u>							
PRINT NAME: <u>MATTHEW MCKIBBIN</u>		FIRM: <u>WAS</u>		TIME: <u>1540</u>		PRINT NAME: <u>Francisco Lunsy Jr.</u>		FIRM: <u>TA-SEA</u>		TIME: <u>1540</u>			
RELEASED BY:		DATE:		RECEIVED BY:		DATE:							
PRINT NAME:		FIRM:		TIME:		PRINT NAME:		FIRM:		TIME:			
ADDITIONAL REMARKS:												TEMP:	PAGE <u>2</u> OF <u>2</u>
<u>* NAAHALENE + MTBE</u>													

TAT: _____ Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/1
Time: 16:50
Initials: CL/FL EL

Date: 4/1
Time: 16:59
Initials: CL

Date: 4/1
Time: 17:15
Initials: CL

Work Order No. BAD0016
Client: _____
Project: _____

✓ Cooler
____ Box
____ None/Other _____

COC Seals:
____ Ship Container _____ Sign By _____
____ On Bottles _____ Date _____
____ None

Packing Material:
____ Bubble Bags _____ Styrofoam
____ Foam Packs
____ None/Other _____

Refrigerant:
✓ Gel Ice Pack _____
____ Loose Ice _____
____ None/Other _____

Soil Stir Bars/Encores:
Placed in freezer #46:
Y or N or NA
Initial/date/time _____

Received Via: Bill#:
____ Fed Ex _____ Client _____
____ UPS _____ TA Courier
____ DHL _____ Mid Valley _____
____ Servoy _____ TDP _____
____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 3.2 °C or NA comments _____

Trip Blank? Y or N or NA
CL 4/1

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

Intact?	<u>Y</u> or N	_____ ID _____	Metals Preserved?	Y or N or <u>NA</u>
Provided by TA?	<u>Y</u> or N	_____ ID _____	Client QAPP Preserved?	Y or N or <u>NA</u>
Correct Type?	<u>Y</u> or N	_____ ID _____	Adequate Volume? (for tests requested)	<u>Y</u> or N
#Containers match COC?	<u>Y</u> or N	_____ ID _____	Water VOAs: Headspace?	Y or N or <u>NA</u>
IDs/time/date match COC?	<u>Y</u> or N	_____ ID _____	Comments:	_____
Hold Times in hold?	<u>Y</u> or N	_____ ID _____		_____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the Items that were incomplete

Comments, Problems _____

Total access set up? _____
Has client been contacted regarding non-conformances? _____

Y or N
Y or N If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 03, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 04/02/09 15:30.
The following list is a summary of the Work Orders contained in this report, generated on 04/03/09
18:54.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0035	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/03/09 18:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot 34-7	BSD0035-01	Soil	04/02/09 08:30	04/02/09 15:30
Amazon Lot 34-8	BSD0035-02	Soil	04/02/09 08:35	04/02/09 15:30
Amazon Lot 34-9	BSD0035-03	Soil	04/02/09 12:50	04/02/09 15:30

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/03/09 18:54

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-01 (Amazon Lot 34-7)		Soil		Sampled: 04/02/09 08:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.59	mg/kg dry	1x	9D02043	04/02/09 17:47	04/02/09 18:05	
<i>Surrogate(s): 4-BFB (FID)</i>			112%		80 - 140 %	"				"
BSD0035-02 (Amazon Lot 34-8)		Soil		Sampled: 04/02/09 08:35						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.33	mg/kg dry	1x	9D02043	04/02/09 17:47	04/02/09 19:09	
<i>Surrogate(s): 4-BFB (FID)</i>			110%		80 - 140 %	"				"
BSD0035-03 (Amazon Lot 34-9)		Soil		Sampled: 04/02/09 12:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	6.10	mg/kg dry	1x	9D02043	04/02/09 17:47	04/02/09 19:41	
<i>Surrogate(s): 4-BFB (FID)</i>			105%		80 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/03/09 18:54
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-01 (Amazon Lot 34-7)		Soil		Sampled: 04/02/09 08:30						
Lube Oil	NWTPH-Dx	ND	----	27.7	mg/kg dry	1x	9D02042	04/02/09 16:53	04/02/09 22:09	
Kerosene	"	ND	----	11.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			91.6%		60 - 135 %	"				"
<i>Octacosane</i>			106%		75 - 125 %	"				"
BSD0035-02 (Amazon Lot 34-8)		Soil		Sampled: 04/02/09 08:35						
Lube Oil	NWTPH-Dx	ND	----	27.9	mg/kg dry	1x	9D02042	04/02/09 16:53	04/02/09 22:30	
Kerosene	"	ND	----	11.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.7%		60 - 135 %	"				"
<i>Octacosane</i>			103%		75 - 125 %	"				"
BSD0035-03 (Amazon Lot 34-9)		Soil		Sampled: 04/02/09 12:50						
Lube Oil	NWTPH-Dx	ND	----	26.7	mg/kg dry	1x	9D02042	04/02/09 16:53	04/02/09 22:52	
Kerosene	"	ND	----	10.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	10.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			81.5%		60 - 135 %	"				"
<i>Octacosane</i>			107%		75 - 125 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/03/09 18:54

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-01 (Amazon Lot 34-7)		Soil		Sampled: 04/02/09 08:30						
Arsenic	EPA 6020	2.15	----	0.568	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 10:06	
Barium	"	68.3	----	5.68	"	"	"	"	"	
Cadmium	"	ND	----	0.568	"	"	"	"	"	
Chromium	"	27.7	----	0.568	"	"	"	"	"	
Lead	"	5.39	----	0.568	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.103	"	"	9D03013	04/03/09 11:53	04/03/09 13:39	
Selenium	EPA 6020	ND	----	1.14	"	"	9D02054	04/02/09 23:06	04/03/09 10:06	
Silver	"	ND	----	0.568	"	"	"	"	"	
BSD0035-02 (Amazon Lot 34-8)		Soil		Sampled: 04/02/09 08:35						
Arsenic	EPA 6020	1.58	----	0.582	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 10:12	
Barium	"	39.6	----	5.82	"	"	"	"	"	
Cadmium	"	ND	----	0.582	"	"	"	"	"	
Chromium	"	20.3	----	0.582	"	"	"	"	"	
Lead	"	3.04	----	0.582	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0987	"	"	9D03013	04/03/09 11:53	04/03/09 13:41	
Selenium	EPA 6020	ND	----	1.16	"	"	9D02054	04/02/09 23:06	04/03/09 10:12	
Silver	"	ND	----	0.582	"	"	"	"	"	
BSD0035-03 (Amazon Lot 34-9)		Soil		Sampled: 04/02/09 12:50						
Arsenic	EPA 6020	1.56	----	0.518	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 10:37	
Barium	"	39.5	----	5.18	"	"	"	"	"	
Cadmium	"	ND	----	0.518	"	"	"	"	"	
Chromium	"	22.2	----	0.518	"	"	"	"	"	
Lead	"	2.32	----	0.518	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.104	"	"	9D03013	04/03/09 11:53	04/03/09 13:44	
Selenium	EPA 6020	ND	----	1.04	"	"	9D02054	04/02/09 23:06	04/03/09 10:37	
Silver	"	ND	----	0.518	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/03/09 18:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-01 (Amazon Lot 34-7)		Soil		Sampled: 04/02/09 08:30						
p-Isopropyltoluene	EPA 8260B	ND	----	0.00273	mg/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 00:33	
4-Methyl-2-pentanone	"	ND	----	0.0164	"	"	"	"	"	
Methylene chloride	"	ND	----	0.00655	"	"	"	"	"	
Naphthalene	"	ND	----	0.00546	"	"	"	"	"	
n-Propylbenzene	"	ND	----	0.00273	"	"	"	"	"	
Styrene	"	ND	----	0.00136	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	0.00546	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	0.00546	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	0.00273	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.00273	"	"	"	"	"	
Tetrachloroethene	"	ND	----	0.00109	"	"	"	"	"	
Toluene	"	ND	----	0.000818	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.00136	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.00109	"	"	"	"	"	
Trichloroethene	"	ND	----	0.00136	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.00273	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	0.00273	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	0.00273	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	0.00273	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.00136	"	"	"	"	"	
o-Xylene	"	ND	----	0.00273	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00273	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00546	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>122%</i>		<i>70 - 140 %</i>	"				"
<i>Toluene-d8</i>			<i>101%</i>		<i>70 - 130 %</i>	"				"
<i>4-BFB</i>			<i>100%</i>		<i>70 - 130 %</i>	"				"

BSD0035-02 (Amazon Lot 34-8)

Soil

Sampled: 04/02/09 08:35

Acetone	EPA 8260B	ND	----	0.0246	mg/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 00:59	
Benzene	"	ND	----	0.000922	"	"	"	"	"	
Bromobenzene	"	ND	----	0.00307	"	"	"	"	"	
Bromochloromethane	"	ND	----	0.00307	"	"	"	"	"	
Bromodichloromethane	"	ND	----	0.00307	"	"	"	"	"	
Bromoform	"	ND	----	0.00307	"	"	"	"	"	
Bromomethane	"	ND	----	0.00615	"	"	"	"	"	
2-Butanone	"	ND	----	0.0184	"	"	"	"	"	
n-Butylbenzene	"	ND	----	0.00307	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	0.00307	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	0.00307	"	"	"	"	"	
Carbon disulfide	"	ND	----	0.00184	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.00307	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.00123	"	"	"	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/03/09 18:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-02 (Amazon Lot 34-8)										
		Soil					Sampled: 04/02/09 08:35			
Chloroethane	EPA 8260B	ND	----	0.00307	mg/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 00:59	
Chloroform	"	ND	----	0.00154	"	"	"	"	"	
Chloromethane	"	ND	----	0.00615	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	0.00307	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	0.00307	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.00307	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	0.00615	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	0.00307	"	"	"	"	"	
Dibromomethane	"	ND	----	0.00307	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.00307	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.00307	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.00307	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.00123	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.000768	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.00184	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	0.00184	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.00154	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.00307	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	0.00307	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	0.00615	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	0.00307	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.00307	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.000768	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.00246	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	0.00615	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000615	"	"	"	"	"	
n-Hexane	"	ND	----	0.00307	"	"	"	"	"	
2-Hexanone	"	ND	----	0.0184	"	"	"	"	"	
Isopropylbenzene	"	ND	----	0.00307	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	0.00307	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	0.0184	"	"	"	"	"	
Methylene chloride	"	ND	----	0.00738	"	"	"	"	"	
Naphthalene	"	ND	----	0.00615	"	"	"	"	"	
n-Propylbenzene	"	ND	----	0.00307	"	"	"	"	"	
Styrene	"	ND	----	0.00154	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	0.00615	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	0.00615	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	0.00307	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.00307	"	"	"	"	"	
Tetrachloroethene	"	ND	----	0.00123	"	"	"	"	"	
Toluene	"	ND	----	0.000922	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.00154	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.00123	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/03/09 18:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-02 (Amazon Lot 34-8)		Soil		Sampled: 04/02/09 08:35						
Trichloroethene	EPA 8260B	0.00313	----	0.00154	mg/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 00:59	
Trichlorofluoromethane	"	ND	----	0.00307	"	"	"	"	"	"
1,2,3-Trichloropropane	"	ND	----	0.00307	"	"	"	"	"	"
1,2,4-Trimethylbenzene	"	ND	----	0.00307	"	"	"	"	"	"
1,3,5-Trimethylbenzene	"	ND	----	0.00307	"	"	"	"	"	"
Vinyl chloride	"	ND	----	0.00154	"	"	"	"	"	"
o-Xylene	"	ND	----	0.00307	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.00307	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.00615	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>121%</i>		<i>70 - 140 %</i>					<i>"</i>
<i>Toluene-d8</i>			<i>99.9%</i>		<i>70 - 130 %</i>					<i>"</i>
<i>4-BFB</i>			<i>100%</i>		<i>70 - 130 %</i>					<i>"</i>
BSD0035-03 (Amazon Lot 34-9)		Soil		Sampled: 04/02/09 12:50						
Acetone	EPA 8260B	ND	----	0.0343	mg/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 01:24	
Benzene	"	ND	----	0.00129	"	"	"	"	"	"
Bromobenzene	"	ND	----	0.00428	"	"	"	"	"	"
Bromochloromethane	"	ND	----	0.00428	"	"	"	"	"	"
Bromodichloromethane	"	ND	----	0.00428	"	"	"	"	"	"
Bromoform	"	ND	----	0.00428	"	"	"	"	"	"
Bromomethane	"	ND	----	0.00857	"	"	"	"	"	"
2-Butanone	"	ND	----	0.0257	"	"	"	"	"	"
n-Butylbenzene	"	ND	----	0.00428	"	"	"	"	"	"
sec-Butylbenzene	"	ND	----	0.00428	"	"	"	"	"	"
tert-Butylbenzene	"	ND	----	0.00428	"	"	"	"	"	"
Carbon disulfide	"	ND	----	0.00257	"	"	"	"	"	"
Carbon tetrachloride	"	ND	----	0.00428	"	"	"	"	"	"
Chlorobenzene	"	ND	----	0.00171	"	"	"	"	"	"
Chloroethane	"	ND	----	0.00428	"	"	"	"	"	"
Chloroform	"	ND	----	0.00214	"	"	"	"	"	"
Chloromethane	"	ND	----	0.00857	"	"	"	"	"	"
2-Chlorotoluene	"	ND	----	0.00428	"	"	"	"	"	"
4-Chlorotoluene	"	ND	----	0.00428	"	"	"	"	"	"
Dibromochloromethane	"	ND	----	0.00428	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	"	ND	----	0.00857	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND	----	0.00428	"	"	"	"	"	"
Dibromomethane	"	ND	----	0.00428	"	"	"	"	"	"
1,2-Dichlorobenzene	"	ND	----	0.00428	"	"	"	"	"	"
1,3-Dichlorobenzene	"	ND	----	0.00428	"	"	"	"	"	"
1,4-Dichlorobenzene	"	ND	----	0.00428	"	"	"	"	"	"
1,1-Dichloroethane	"	ND	----	0.00171	"	"	"	"	"	"
1,2-Dichloroethane	"	0.00293	----	0.00107	"	"	"	"	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/03/09 18:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-03 (Amazon Lot 34-9)		Soil		Sampled: 04/02/09 12:50						
1,1-Dichloroethene	EPA 8260B	ND	----	0.00257	mg/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 01:24	
cis-1,2-Dichloroethene	"	ND	----	0.00257	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.00214	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.00428	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	0.00428	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	0.00857	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	0.00428	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.00428	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.00107	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.00343	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	0.00857	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000857	"	"	"	"	"	
n-Hexane	"	ND	----	0.00428	"	"	"	"	"	
2-Hexanone	"	ND	----	0.0257	"	"	"	"	"	
Isopropylbenzene	"	ND	----	0.00428	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	0.00428	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	0.0257	"	"	"	"	"	
Methylene chloride	"	ND	----	0.0103	"	"	"	"	"	
Naphthalene	"	ND	----	0.00857	"	"	"	"	"	
n-Propylbenzene	"	ND	----	0.00428	"	"	"	"	"	
Styrene	"	ND	----	0.00214	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	0.00857	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	0.00857	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	0.00428	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	0.00428	"	"	"	"	"	
Tetrachloroethene	"	ND	----	0.00171	"	"	"	"	"	
Toluene	"	ND	----	0.00129	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.00214	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.00171	"	"	"	"	"	
Trichloroethene	"	0.00456	----	0.00214	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.00428	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	0.00428	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	0.00428	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	0.00428	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.00214	"	"	"	"	"	
o-Xylene	"	ND	----	0.00428	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00428	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00857	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>125%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>97.7%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>98.0%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/03/09 18:54
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Volatile Organic Compounds (Special List) by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-01 (Amazon Lot 34-7)		Soil		Sampled: 04/02/09 08:30						
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0917	mg/kg dry	1x	9D02029	04/02/09 17:40	04/02/09 19:45	C5
Surrogate(s):	1,2-DCA-d4		111%		75 - 125 %	"			"	
	Toluene-d8		92.8%		75 - 125 %	"			"	
	4-BFB		96.1%		75 - 125 %	"			"	
BSD0035-02 (Amazon Lot 34-8)		Soil		Sampled: 04/02/09 08:35						
Dichlorodifluoromethane	EPA 8260B	ND	----	0.107	mg/kg dry	1x	9D02029	04/02/09 17:40	04/02/09 20:12	C5
Surrogate(s):	1,2-DCA-d4		109%		75 - 125 %	"			"	
	Toluene-d8		92.7%		75 - 125 %	"			"	
	4-BFB		95.2%		75 - 125 %	"			"	
BSD0035-03 (Amazon Lot 34-9)		Soil		Sampled: 04/02/09 12:50						
Dichlorodifluoromethane	EPA 8260B	ND	----	0.122	mg/kg dry	1x	9D02029	04/02/09 17:40	04/02/09 20:38	C5
Surrogate(s):	1,2-DCA-d4		117%		75 - 125 %	"			"	
	Toluene-d8		91.2%		75 - 125 %	"			"	
	4-BFB		97.1%		75 - 125 %	"			"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/03/09 18:54

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-01 (Amazon Lot 34-7)		Soil		Sampled: 04/02/09 08:30						
Acenaphthene	8270C-SIM	ND	----	0.0109	mg/kg dry	1x	9D01023	04/02/09 12:30	04/02/09 22:42	
Acenaphthylene	"	ND	----	0.0109	"	"	"	"	"	"
Anthracene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (b & k) fluoranthene	"	ND	----	0.0219	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0109	"	"	"	"	"	"
Chrysene	"	ND	----	0.0109	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0109	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0109	"	"	"	"	"	"
Fluorene	"	ND	----	0.0109	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0109	"	"	"	"	"	"
1-Methylnaphthalene	"	ND	----	0.0109	"	"	"	"	"	"
2-Methylnaphthalene	"	ND	----	0.0109	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0109	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0109	"	"	"	"	"	"
Pyrene	"	ND	----	0.0109	"	"	"	"	"	"

Surrogate(s): *p-Terphenyl-d14* 83.8% 46 - 125 % " "

BSD0035-02 (Amazon Lot 34-8)		Soil		Sampled: 04/02/09 08:35						
Acenaphthene	8270C-SIM	ND	----	0.0112	mg/kg dry	1x	9D01023	04/02/09 12:30	04/02/09 23:14	
Acenaphthylene	"	ND	----	0.0112	"	"	"	"	"	"
Anthracene	"	ND	----	0.0112	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0112	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0112	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0112	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0112	"	"	"	"	"	"
Benzo (b & k) fluoranthene	"	ND	----	0.0223	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0112	"	"	"	"	"	"
Chrysene	"	ND	----	0.0112	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0112	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0112	"	"	"	"	"	"
Fluorene	"	ND	----	0.0112	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0112	"	"	"	"	"	"
1-Methylnaphthalene	"	ND	----	0.0112	"	"	"	"	"	"
2-Methylnaphthalene	"	ND	----	0.0112	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0112	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0112	"	"	"	"	"	"
Pyrene	"	ND	----	0.0112	"	"	"	"	"	"

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/03/09 18:54
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSD0035-02 (Amazon Lot 34-8)	Soil		Sampled: 04/02/09 08:35							
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<i>Surrogate(s): p-Terphenyl-d14</i>		81.4%		46 - 125 %		1x			04/02/09 23:14	
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BSD0035-03 (Amazon Lot 34-9)	Soil		Sampled: 04/02/09 12:50							
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Acenaphthene	8270C-SIM	ND	----	0.0106	mg/kg dry	1x	9D01023	04/02/09 13:30	04/03/09 11:39	
Acenaphthylene	"	ND	----	0.0106	"	"	"	"	"	"
Anthracene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (b & k) fluoranthene	"	ND	----	0.0213	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0106	"	"	"	"	"	"
Chrysene	"	ND	----	0.0106	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0106	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0106	"	"	"	"	"	"
Fluorene	"	ND	----	0.0106	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0106	"	"	"	"	"	"
1-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	"
2-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0106	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0106	"	"	"	"	"	"
Pyrene	"	ND	----	0.0106	"	"	"	"	"	"

<i>Surrogate(s): p-Terphenyl-d14</i>		86.0%		46 - 125 %		"			"	
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TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/03/09 18:54
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0035-01 (Amazon Lot 34-7)		Soil			Sampled: 04/02/09 08:30					
Dry Weight	BSOPSP003R0 8	89.9	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	
BSD0035-02 (Amazon Lot 34-8)		Soil			Sampled: 04/02/09 08:35					
Dry Weight	BSOPSP003R0 8	89.5	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	
BSD0035-03 (Amazon Lot 34-9)		Soil			Sampled: 04/02/09 12:50					
Dry Weight	BSOPSP003R0 8	92.8	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/03/09 18:54
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02043 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D02043-BLK1)

Extracted: 04/02/09 16:00

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/02/09 17:00	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.9%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>04/02/09 17:00</i>	

LCS (9D02043-BS1)

Extracted: 04/02/09 16:00

Gasoline Range Hydrocarbons	NWTPH-Gx	49.7	---	5.00	mg/kg wet	1x	--	50.0	99.4%	(80-120)	--	--	04/02/09 17:32	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>04/02/09 17:32</i>	

Duplicate (9D02043-DUP1)

QC Source: BSD0035-01

Extracted: 04/02/09 16:00

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	4.59	mg/kg dry	1x	ND	--	--	--	NR (40)	--	04/02/09 18:37	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 112%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>04/02/09 18:37</i>	

Matrix Spike (9D02043-MS1)

QC Source: BSD0035-01

Extracted: 04/02/09 16:00

Gasoline Range Hydrocarbons	NWTPH-Gx	46.7	---	4.59	mg/kg dry	1x	ND	40.2	116%	(75-130)	--	--	04/02/09 21:49	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 120%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>04/02/09 21:49</i>	

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Kate Haney

Kate Haney, Project Manager

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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02042 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D02042-BLK1)

Extracted: 04/02/09 16:53

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/02/09 20:44	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>88.2%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/02/09 20:44</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9D02042-BS1)

Extracted: 04/02/09 16:53

Lube Oil	NWTPH-Dx	64.7	---	25.0	mg/kg wet	1x	--	66.7	97.1%	(63-125)	--	--	04/02/09 21:05	
Diesel Range Hydrocarbons	"	73.4	---	10.0	"	"	--	"	110%	(75-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.5%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/02/09 21:05</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D02042-DUP1)

QC Source: BSD0035-01

Extracted: 04/02/09 16:53

Lube Oil	NWTPH-Dx	ND	---	27.5	mg/kg dry	1x	ND	--	--	--	21.1% (40)	--	04/02/09 21:26	
Kerosene	"	ND	---	11.0	"	"	ND	--	--	--	NR	"	"	
Diesel Range Hydrocarbons	"	ND	---	11.0	"	"	ND	--	--	--	"	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.2%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/02/09 21:26</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D02042-MS1)

QC Source: BSD0035-01

Extracted: 04/02/09 16:53

Lube Oil	NWTPH-Dx	78.0	---	27.6	mg/kg dry	1x	7.19	73.7	96.1%	(26-150)	--	--	04/02/09 21:47	
Diesel Range Hydrocarbons	"	84.2	---	11.1	"	"	ND	"	114%	(40-145)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>88.4%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/02/09 21:47</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02054	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D02054-BLK1)

Extracted: 04/02/09 23:06

Selenium	EPA 6020	ND	---	1.03	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 09:35	
Chromium	"	ND	---	0.515	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.515	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.515	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.515	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	5.15	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.515	"	"	--	--	--	--	--	--	"	

LCS (9D02054-BS1)

Extracted: 04/02/09 23:06

Cadmium	EPA 6020	38.9	---	0.495	mg/kg wet	1x	--	39.6	98.2%	(80-120)	--	--	04/03/09 09:41	
Selenium	"	39.6	---	0.990	"	"	--	"	100%	"	--	--	"	
Lead	"	39.0	---	0.495	"	"	--	"	98.4%	"	--	--	"	
Barium	"	40.9	---	4.95	"	"	--	"	103%	"	--	--	"	
Chromium	"	40.5	---	0.495	"	"	--	"	102%	"	--	--	"	
Silver	"	40.4	---	0.495	"	"	--	"	102%	"	--	--	"	
Arsenic	"	39.1	---	0.495	"	"	--	"	98.7%	"	--	--	"	

Duplicate (9D02054-DUP1)

QC Source: BSD0035-01

Extracted: 04/02/09 23:06

Arsenic	EPA 6020	2.20	---	0.574	mg/kg dry	1x	2.15	--	--	--	2.34% (20)	--	04/03/09 10:00	
Barium	"	68.4	---	5.74	"	"	68.3	--	--	--	0.190%	"	"	
Selenium	"	ND	---	1.15	"	"	ND	--	--	--	NR	"	"	
Cadmium	"	ND	---	0.574	"	"	ND	--	--	--	14.4%	"	"	
Silver	"	ND	---	0.574	"	"	ND	--	--	--	NR	"	"	
Lead	"	4.68	---	0.574	"	"	5.39	--	--	--	14.2%	"	"	
Chromium	"	25.9	---	0.574	"	"	27.7	--	--	--	6.63%	"	"	

Matrix Spike (9D02054-MS1)

QC Source: BSD0035-01

Extracted: 04/02/09 23:06

Chromium	EPA 6020	69.6	---	0.551	mg/kg dry	1x	27.7	44.1	95.0%	(75-125)	--	--	04/03/09 09:54	
Cadmium	"	45.1	---	0.551	"	"	0.119	"	102%	"	--	--	"	
Arsenic	"	44.9	---	0.551	"	"	2.15	"	96.9%	"	--	--	"	
Barium	"	110	---	5.51	"	"	68.3	"	94.4%	"	--	--	"	
Selenium	"	44.4	---	1.10	"	"	ND	"	101%	"	--	--	"	
Silver	"	41.9	---	0.551	"	"	ND	"	95.0%	"	--	--	"	
Lead	"	51.2	---	0.551	"	"	5.39	"	104%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/03/09 18:54
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02054	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9D02054-PS1)			QC Source: BSD0035-01				Extracted: 04/02/09 23:06							
Silver	EPA 6020	0.0953	---		ug/ml	1x	0.0000300	0.100	95.2%	(80-120)	--	--	04/03/09 09:48	
Selenium	"	0.0982	---		"	"	0.000250	"	98.0%	"	--	--	"	
Arsenic	"	0.103	---		"	"	0.00379	0.0995	100%	"	--	--	"	
Barium	"	0.222	---		"	"	0.120	0.100	102%	"	--	--	"	
Cadmium	"	0.0995	---		"	"	0.000210	"	99.2%	"	--	--	"	
Chromium	"	0.149	---		"	"	0.0488	"	99.9%	"	--	--	"	
Lead	"	0.108	---		"	"	0.00950	"	98.4%	"	--	--	"	

QC Batch: 9D03013	Soil Preparation Method: EPA 7471A
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D03013-BLK1)							Extracted: 04/03/09 11:53							
Mercury	EPA 7471A	ND	---	0.0984	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 13:26	
LCS (9D03013-BS1)							Extracted: 04/03/09 11:53							
Mercury	EPA 7471A	0.637	---	0.100	mg/kg wet	1x	--	0.667	95.5%	(80-120)	--	--	04/03/09 13:29	
LCS Dup (9D03013-BSD1)							Extracted: 04/03/09 11:53							
Mercury	EPA 7471A	0.638	---	0.0995	mg/kg wet	1x	--	0.664	96.1%	(80-120)	0.134% (20)		04/03/09 13:31	
Matrix Spike (9D03013-MS1)			QC Source: BSD0035-01				Extracted: 04/03/09 11:53							
Mercury	EPA 7471A	0.679	---	0.0993	mg/kg dry	1x	0.0292	0.662	98.2%	(80-125)	--	--	04/03/09 13:34	
Matrix Spike Dup (9D03013-MSD1)			QC Source: BSD0035-01				Extracted: 04/03/09 11:53							
Mercury	EPA 7471A	0.663	---	0.102	mg/kg dry	1x	0.0292	0.683	92.7%	(80-125)	2.43% (30)		04/03/09 13:36	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/03/09 18:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9D02033

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D02033-BLK1)													Extracted: 04/02/09 20:17	
Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 00:08	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/03/09 18:54
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02033 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D02033-BLK1)													Extracted: 04/02/09 20:17			
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 00:08			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"			
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"			
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"			
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"			
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"			
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"			
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 124%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>04/03/09 00:08</i>
<i>Toluene-d8</i>													<i>96.9%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>101%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/03/09 18:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9D02033

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D02033-BS1)													Extracted: 04/02/09 20:17	
Acetone	EPA 8260B	0.523	---	0.0400	mg/kg wet	1x	--	0.500	105%	(60-140)	--	--	04/02/09 23:16	
Benzene	"	0.0466	---	0.00150	"	"	--	0.0500	93.2%	(70-125)	--	--	"	
2-Butanone	"	0.491	---	0.0300	"	"	--	0.500	98.2%	(60-140)	--	--	"	
Carbon disulfide	"	0.0418	---	0.00300	"	"	--	0.0500	83.5%	(70-130)	--	--	"	
Chlorobenzene	"	0.0448	---	0.00200	"	"	--	"	89.6%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0479	---	0.00200	"	"	--	"	95.7%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0468	---	0.00300	"	"	--	"	93.5%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0472	---	0.00300	"	"	--	"	94.4%	(75-125)	--	--	"	
Ethylbenzene	"	0.0452	---	0.00400	"	"	--	"	90.4%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0518	---	0.0100	"	"	--	"	104%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.475	---	0.0300	"	"	--	0.500	95.0%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0464	---	0.00200	"	"	--	0.0500	92.7%	(70-125)	--	--	"	
Toluene	"	0.0464	---	0.00150	"	"	--	"	92.8%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0465	---	0.00250	"	"	--	"	93.1%	(70-130)	--	--	"	
Trichloroethene	"	0.0478	---	0.00250	"	"	--	"	95.6%	(70-125)	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	99.9%	Limits:	70-140%	"	04/02/09 23:16
	Toluene-d8		101%		70-130%	"	"
	4-BFB		98.1%		70-130%	"	"

LCS Dup (9D02033-BSD1)

Extracted: 04/02/09 20:17

Acetone	EPA 8260B	0.498	---	0.0400	mg/kg wet	1x	--	0.500	99.6%	(60-140)	4.84% (30)	04/02/09 23:42
Benzene	"	0.0462	---	0.00150	"	"	--	0.0500	92.4%	(70-125)	0.948%	"
2-Butanone	"	0.531	---	0.0300	"	"	--	0.500	106%	(60-140)	7.76%	"
Carbon disulfide	"	0.0378	---	0.00300	"	"	--	0.0500	75.7%	(70-130)	9.85%	"
Chlorobenzene	"	0.0468	---	0.00200	"	"	--	"	93.7%	(70-125)	4.50%	"
1,1-Dichloroethane	"	0.0459	---	0.00200	"	"	--	"	91.9%	(75-125)	4.09%	"
1,1-Dichloroethene	"	0.0432	---	0.00300	"	"	--	"	86.4%	(70-130)	7.89%	"
cis-1,2-Dichloroethene	"	0.0453	---	0.00300	"	"	--	"	90.7%	(75-125)	4.02%	"
Ethylbenzene	"	0.0464	---	0.00400	"	"	--	"	92.9%	(70-125)	2.68%	"
Hexachlorobutadiene	"	0.0470	---	0.0100	"	"	--	"	94.1%	(70-130)	9.65%	"
4-Methyl-2-pentanone	"	0.516	---	0.0300	"	"	--	0.500	103%	(60-140)	8.37%	"
Tetrachloroethene	"	0.0463	---	0.00200	"	"	--	0.0500	92.6%	(70-125)	0.151%	"
Toluene	"	0.0470	---	0.00150	"	"	--	"	94.0%	"	1.33%	"
1,1,1-Trichloroethane	"	0.0441	---	0.00250	"	"	--	"	88.1%	(70-130)	5.45%	"
Trichloroethene	"	0.0463	---	0.00250	"	"	--	"	92.6%	(70-125)	3.19%	"

Surrogate(s):	1,2-DCA-d4	Recovery:	97.8%	Limits:	70-140%	"	04/02/09 23:42
	Toluene-d8		102%		70-130%	"	"
	4-BFB		103%		70-130%	"	"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/03/09 18:54
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02029 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D02029-BLK1)													Extracted: 04/02/09 14:40	
Acetone	EPA 8260B	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/02/09 19:18	
Benzene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	

C5

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/03/09 18:54
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02029 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D02029-BLK1)													Extracted: 04/02/09 14:40	
Hexachlorobutadiene	EPA 8260B	ND	---	2.00	mg/kg wet	1x	--	--	--	--	--	--	04/02/09 19:18	
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 110%</i>		<i>Limits: 75-125%</i>		<i>"</i>							<i>04/02/09 19:18</i>	
<i>Toluene-d8</i>		<i>95.3%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>98.0%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/03/09 18:54
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Volatile Organic Compounds (Special List) by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02029 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D02029-BS1)													Extracted: 04/02/09 14:40	
Benzene	EPA 8260B	3.47	---	0.0200	mg/kg wet	1x	--	4.00	86.7%	(75-125)	--	--	04/02/09 17:22	
Chlorobenzene	"	3.61	---	0.100	"	"	--	"	90.2%	"	--	--	"	
1,1-Dichloroethene	"	3.83	---	0.100	"	"	--	"	95.8%	(70-130)	--	--	"	
Methyl tert-butyl ether	"	4.12	---	0.0500	"	"	--	"	103%	(0-200)	--	--	"	
Toluene	"	3.42	---	0.100	"	"	--	"	85.5%	(75-125)	--	--	"	
Trichloroethene	"	3.72	---	0.100	"	"	--	"	92.9%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>112%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/02/09 17:22</i>	
<i>Toluene-d8</i>			<i>91.8%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>93.8%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D02029-BSD1)													Extracted: 04/02/09 14:40	
Benzene	EPA 8260B	3.52	---	0.0200	mg/kg wet	1x	--	4.00	88.1%	(75-125)	1.60% (20)		04/02/09 17:49	
Chlorobenzene	"	3.70	---	0.100	"	"	--	"	92.6%	"	2.54%	"	"	
1,1-Dichloroethene	"	3.64	---	0.100	"	"	--	"	90.9%	(70-130)	5.28%	"	"	
Methyl tert-butyl ether	"	4.11	---	0.0500	"	"	--	"	103%	(0-200)	0.437% (200)	"	"	
Toluene	"	3.49	---	0.100	"	"	--	"	87.2%	(75-125)	1.97% (20)	"	"	
Trichloroethene	"	3.67	---	0.100	"	"	--	"	91.7%	"	1.25%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/02/09 17:49</i>	
<i>Toluene-d8</i>			<i>95.6%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>93.6%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/03/09 18:54
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01023 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D01023-BLK1)													Extracted: 04/02/09 12:30			
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/02/09 20:30			
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (b & k) fluoranthene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"			
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): p-Terphenyl-d14</i>													<i>Recovery: 70.4%</i>	<i>Limits: 46-125%</i>	<i>"</i>	<i>04/02/09 20:30</i>

LCS (9D01023-BS1)													Extracted: 04/02/09 12:30	
Acenaphthene	8270C-SIM	0.684	---	0.0100	mg/kg wet	1x	--	0.667	103%	(65-130)	--	--	04/02/09 21:03	
Acenaphthylene	"	0.715	---	0.0100	"	"	--	"	107%	(67-142)	--	--	"	
Anthracene	"	0.849	---	0.0100	"	"	--	"	127%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.728	---	0.0100	"	"	--	"	109%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.726	---	0.0100	"	"	--	"	109%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.667	---	0.0100	"	"	--	"	100%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.880	---	0.0100	"	"	--	"	132%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.584	---	0.0100	"	"	--	"	87.6%	"	--	--	"	
Chrysene	"	0.754	---	0.0100	"	"	--	"	113%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.580	---	0.0100	"	"	--	"	86.9%	(56-149)	--	--	"	
Fluoranthene	"	0.816	---	0.0100	"	"	--	"	122%	(72-145)	--	--	"	
Fluorene	"	0.797	---	0.0100	"	"	--	"	120%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.579	---	0.0100	"	"	--	"	86.8%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.665	---	0.0100	"	"	--	"	99.8%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.696	---	0.0100	"	"	--	"	104%	(56-124)	--	--	"	
Naphthalene	"	0.611	---	0.0100	"	"	--	"	91.6%	(56-146)	--	--	"	
Phenanthrene	"	0.692	---	0.0100	"	"	--	"	104%	(64-139)	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/03/09 18:54
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01023 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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LCS (9D01023-BS1)

Extracted: 04/02/09 12:30

Pyrene	8270C-SIM	0.672	---	0.0100	mg/kg wet	1x	--	0.667	101%	(58-149)	--	--	04/02/09 21:03	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 78.9%</i>		<i>Limits: 46-125%</i>									<i>04/02/09 21:03</i>	

Matrix Spike (9D01023-MS1)

QC Source: BSD0023-02

Extracted: 04/02/09 12:30

Acenaphthene	8270C-SIM	0.879	---	0.0127	mg/kg dry	1x	0.0101	0.850	102%	(64-140)	--	--	04/02/09 21:36	
Acenaphthylene	"	0.907	---	0.0127	"	"	0.00220	"	106%	(66-150)	--	--	"	
Anthracene	"	1.09	---	0.0127	"	"	0.0219	"	125%	(54-150)	--	--	"	
Benzo (a) anthracene	"	1.01	---	0.0127	"	"	0.0761	"	110%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.967	---	0.0127	"	"	0.0956	"	103%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.868	---	0.0127	"	"	0.0795	"	92.8%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	1.13	---	0.0127	"	"	0.0931	"	122%	"	--	--	"	
Benzo (ghi) perylene	"	0.933	---	0.0127	"	"	0.0726	"	101%	"	--	--	"	
Chrysene	"	1.03	---	0.0127	"	"	0.101	"	109%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.809	---	0.0127	"	"	0.0278	"	91.9%	(55-150)	--	--	"	
Fluoranthene	"	1.15	---	0.0127	"	"	0.135	"	120%	(70-150)	--	--	"	
Fluorene	"	1.01	---	0.0127	"	"	0.00618	"	119%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.846	---	0.0127	"	"	0.0582	"	92.7%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.846	---	0.0127	"	"	0.00263	"	99.2%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.878	---	0.0127	"	"	0.00415	"	103%	(50-140)	--	--	"	
Naphthalene	"	0.767	---	0.0127	"	"	0.00373	"	89.8%	(47-147)	--	--	"	
Phenanthrene	"	0.929	---	0.0127	"	"	0.0613	"	102%	(56-150)	--	--	"	
Pyrene	"	0.941	---	0.0127	"	"	0.112	"	97.5%	(57-150)	--	--	"	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 78.1%</i>		<i>Limits: 46-125%</i>									<i>04/02/09 21:36</i>	

Matrix Spike Dup (9D01023-MSD1)

QC Source: BSD0023-02

Extracted: 04/02/09 12:30

Acenaphthene	8270C-SIM	0.900	---	0.0128	mg/kg dry	1x	0.0101	0.855	104%	(64-140)	2.45% (41)		04/02/09 22:09	
Acenaphthylene	"	0.918	---	0.0128	"	"	0.00220	"	107%	(66-150)	1.20% "		"	
Anthracene	"	1.12	---	0.0128	"	"	0.0219	"	129%	(54-150)	3.49% "		"	
Benzo (a) anthracene	"	1.17	---	0.0128	"	"	0.0761	"	128%	(57-150)	14.9% "		"	
Benzo (a) pyrene	"	1.20	---	0.0128	"	"	0.0956	"	129%	(55-150)	21.6% (35)		"	
Benzo (b) fluoranthene	"	1.21	---	0.0128	"	"	0.0795	"	132%	(54-150)	32.9% (41)		"	
Benzo (k) fluoranthene	"	1.04	---	0.0128	"	"	0.0931	"	110%	"	8.43% "		"	
Benzo (ghi) perylene	"	1.08	---	0.0128	"	"	0.0726	"	118%	"	15.0% "		"	
Chrysene	"	1.20	---	0.0128	"	"	0.101	"	129%	(65-150)	15.5% (40)		"	
Dibenz (a,h) anthracene	"	0.915	---	0.0128	"	"	0.0278	"	104%	(55-150)	12.3% (41)		"	
Fluoranthene	"	1.43	---	0.0128	"	"	0.135	"	151%	(70-150)	21.2% "		"	MI
Fluorene	"	1.05	---	0.0128	"	"	0.00618	"	122%	(74-150)	3.38% (44)		"	
Indeno (1,2,3-cd) pyrene	"	1.01	---	0.0128	"	"	0.0582	"	111%	(50-150)	17.5% "		"	
1-Methylnaphthalene	"	0.885	---	0.0128	"	"	0.00263	"	103%	(45-145)	4.48% (41)		"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/03/09 18:54
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D01023 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9D01023-MSD1)			QC Source: BSD0023-02				Extracted: 04/02/09 12:30							
2-Methylnaphthalene	8270C-SIM	0.927	---	0.0128	mg/kg dry	1x	0.00415	0.855	108%	(50-140)	5.44%	(41)	04/02/09 22:09	
Naphthalene	"	0.844	---	0.0128	"	"	0.00373	"	98.2%	(47-147)	9.60%	"	"	
Phenanthrene	"	1.08	---	0.0128	"	"	0.0613	"	119%	(56-150)	15.1%	"	"	
Pyrene	"	1.06	---	0.0128	"	"	0.112	"	111%	(57-150)	12.2%	"	"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 72.9%		Limits: 46-125%		"		04/02/09 22:09						

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/03/09 18:54
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02035 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D02035-BLK1)										Extracted: 04/02/09 15:29				
Dry Weight	BSOPSP00 3R08	99.5	---	1.00	%	1x	--	--	--	--	--	--	04/03/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/03/09 18:54

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/03/09 18:54

Notes and Definitions

Report Specific Notes:

- C5 - Calibration Verification recovery was below the method control limit for this analyte. An additional check standard was analyzed at the reporting limit to ensure instrument sensitivity at the reporting limit. Samples ND.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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 11922 E. First Ave, Spokane, WA 99206-5302
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **14A0035**

CLIENT: WRS CORP		INVOICE TO: WRS CORP		TURNAROUND REQUEST									
REPORT TO: WMCP Staff		ADDRESS:		in Business Days *									
PHONE:		FAX:		Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses									
PROJECT NAME: WMCP		P.O. NUMBER:		STD. 10 7 5 4 3 2 1 <1 STD. 5 4 3 2 1 <1									
PROJECT NUMBER:		PRESERVATIVE		OTHER: ETA									
SAMPLED BY: MATTHEW M'KEABIN		REQUESTED ANALYSES		Specify: ETA									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	82608	REB-8	PAH's	GC	MPH	MPH	MPH	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/O ID	
1 Amazon Lot 34-7	4-2-09 / 0830	X	X	X	X	X	X	X	S	4	Clean Fore	01	
2 " " -8	" " / 0835	X	X	X	X	X	X	X				02	
3 " " -9	" " / 1250	X	X	X	X	X	X	X				03	
4													
5													
6													
7													
8													
9													
10													
RELEASED BY: Matthew M'Keabin		DATE: 4-2-09		RECEIVED BY: Francisco Lung Jr		DATE: 4/2/09		FIRM: WRS		FIRM: TA-SEA		DATE: 4/2/09	
PRINT NAME: MATTHEW M'KEABIN		TIME: 1440		PRINT NAME: Francisco Lung Jr		TIME: 1500		TEMP: 5.0 C		FIRM: WRS		PAGE: 1 OF 1	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:		FIRM:		FIRM:		PAGE:	
PRINT NAME:		TIME:		RECEIVED BY:		TIME:		TEMP:		FIRM:		PAGE:	
ADDITIONAL REMARKS:													

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or **N**

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/2/09

Date: 4/2

Date: 4/2

Work Order No. 10000035

Time: 1530

Time: 16:04

Time: 17:00

Client: _____

Initials: FL

Initials: CL

Initials: CL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container _____ Sign By

Bubble Bags

____ Styrofoam

____ Box

____ On Bottles _____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): 5.0 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? _____ °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N _____

Adequate Volume? or N _____
(for tests requested)

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 23, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/02/09 15:30.
The following list is a summary of the Work Orders contained in this report, generated on 04/23/09
15:52.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0036	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-G10-14	BSD0036-01	Soil	04/02/09 11:00	04/02/09 15:30
Area1-F10-14	BSD0036-02	Soil	04/02/09 11:30	04/02/09 15:30
Area1-H10-14	BSD0036-03	Soil	04/02/09 11:45	04/02/09 15:30
Area2-C9-14	BSD0036-04	Soil	04/02/09 13:30	04/02/09 15:30
Area2-C8-14	BSD0036-05	Soil	04/02/09 14:00	04/02/09 15:30
Area2-C7-14	BSD0036-06	Soil	04/02/09 14:15	04/02/09 15:30
Area2-C6-14	BSD0036-07	Soil	04/02/09 14:30	04/02/09 15:30

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:52
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-01 (Area1-G10-14)		Soil		Sampled: 04/02/09 11:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	13.6	48.5	mg/kg dry	1x	9D02043	04/02/09 17:47	04/02/09 20:13	
Surrogate(s): 4-BFB (FID)			167%		80 - 140 %	"				ZX
BSD0036-02 (Area1-F10-14)		Soil		Sampled: 04/02/09 11:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	23.6	20.3	72.4	mg/kg dry	1x	9D02043	04/02/09 17:47	04/02/09 20:45	J
Surrogate(s): 4-BFB (FID)			164%		80 - 140 %	"				ZX
BSD0036-03 (Area1-H10-14)		Soil		Sampled: 04/02/09 11:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	12.3	4.28	15.3	mg/kg dry	1x	9D02043	04/02/09 17:47	04/02/09 21:17	J
Surrogate(s): 4-BFB (FID)			184%		80 - 140 %	"				ZX
BSD0036-04 (Area2-C9-14)		Soil		Sampled: 04/02/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	32.8	7.10	25.4	mg/kg dry	1x	9D02043	04/02/09 17:47	04/02/09 23:25	
Surrogate(s): 4-BFB (FID)			195%		80 - 140 %	"				ZX
BSD0036-05 (Area2-C8-14)		Soil		Sampled: 04/02/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	9.48	33.9	mg/kg dry	1x	9D02043	04/02/09 17:47	04/02/09 23:57	
Surrogate(s): 4-BFB (FID)			174%		80 - 140 %	"				ZX
BSD0036-06 (Area2-C7-14)		Soil		Sampled: 04/02/09 14:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	14.1	50.2	mg/kg dry	1x	9D02043	04/02/09 17:47	04/03/09 00:28	
Surrogate(s): 4-BFB (FID)			154%		80 - 140 %	"				ZX
BSD0036-07 (Area2-C6-14)		Soil		Sampled: 04/02/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	53.2	12.4	44.5	mg/kg dry	1x	9D02043	04/02/09 17:47	04/03/09 01:00	
Surrogate(s): 4-BFB (FID)			155%		80 - 140 %	"				ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:52
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-01 (Area1-G10-14)		Soil			Sampled: 04/02/09 11:00					
Lube Oil	NWTPH-Dx	ND	----	124	mg/kg dry	1x	9D02015	04/02/09 15:23	04/03/09 06:24	
Kerosene	"	ND	----	49.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	59.2	----	49.5	"	"	"	"	"	Q3
<i>Surrogate(s): 2-FBP</i>			86.7%		54 - 148 %	"				
<i>Octacosane</i>			105%		62 - 142 %	"				
BSD0036-02 (Area1-F10-14)		Soil			Sampled: 04/02/09 11:30					
Kerosene	NWTPH-Dx	674	----	67.1	mg/kg dry	1x	9D02015	04/02/09 15:23	04/03/09 06:45	Q1
Diesel Range Hydrocarbons	"	2120	----	67.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			86.0%		54 - 148 %	"				
<i>Octacosane</i>			96.0%		62 - 142 %	"				
BSD0036-02RE1 (Area1-F10-14)		Soil			Sampled: 04/02/09 11:30					
Lube Oil	NWTPH-Dx	2830	----	838	mg/kg dry	5x	9D02015	04/02/09 15:23	04/03/09 14:41	
<i>Surrogate(s): 2-FBP</i>			79.5%		54 - 148 %	"				
<i>Octacosane</i>			104%		62 - 142 %	"				
BSD0036-03 (Area1-H10-14)		Soil			Sampled: 04/02/09 11:45					
Lube Oil	NWTPH-Dx	306	----	59.6	mg/kg dry	1x	9D02015	04/02/09 15:23	04/03/09 07:07	
Kerosene	"	81.5	----	23.9	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	226	----	23.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			87.2%		54 - 148 %	"				
<i>Octacosane</i>			98.8%		62 - 142 %	"				
BSD0036-04 (Area2-C9-14)		Soil			Sampled: 04/02/09 13:30					
Lube Oil	NWTPH-Dx	ND	----	85.7	mg/kg dry	1x	9D02015	04/02/09 15:23	04/03/09 07:28	
Kerosene	"	ND	----	34.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	34.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.7%		54 - 148 %	"				
<i>Octacosane</i>			102%		62 - 142 %	"				

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:52
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-05 (Area2-C8-14)		Soil		Sampled: 04/02/09 14:00						
Lube Oil	NWTPH-Dx	ND	----	98.9	mg/kg dry	1x	9D02015	04/02/09 15:23	04/03/09 07:50	
Kerosene	"	ND	----	39.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	39.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			88.7%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"
BSD0036-06 (Area2-C7-14)		Soil		Sampled: 04/02/09 14:15						
Lube Oil	NWTPH-Dx	293	----	114	mg/kg dry	1x	9D02015	04/02/09 15:23	04/03/09 08:11	
Kerosene	"	ND	----	45.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	141	----	45.8	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			80.5%		54 - 148 %	"				"
<i>Octacosane</i>			95.9%		62 - 142 %	"				"
BSD0036-07 (Area2-C6-14)		Soil		Sampled: 04/02/09 14:30						
Lube Oil	NWTPH-Dx	225	----	105	mg/kg dry	1x	9D02015	04/02/09 15:23	04/03/09 08:32	
Kerosene	"	88.9	----	41.9	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	175	----	41.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			84.2%		54 - 148 %	"				"
<i>Octacosane</i>			105%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:52

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-01 (Area1-G10-14)		Soil						Sampled: 04/02/09 11:00		
Lead	EPA 6020	532	----	2.41	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 10:43	
BSD0036-02 (Area1-F10-14)		Soil						Sampled: 04/02/09 11:30		
Lead	EPA 6020	205	----	3.30	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 10:50	
BSD0036-03 (Area1-H10-14)		Soil						Sampled: 04/02/09 11:45		
Lead	EPA 6020	112	----	1.18	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 10:56	
BSD0036-04 (Area2-C9-14)		Soil						Sampled: 04/02/09 13:30		
Lead	EPA 6020	144	----	1.69	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 11:02	
BSD0036-05 (Area2-C8-14)		Soil						Sampled: 04/02/09 14:00		
Lead	EPA 6020	59.7	----	2.05	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 11:08	
BSD0036-06 (Area2-C7-14)		Soil						Sampled: 04/02/09 14:15		
Lead	EPA 6020	67.5	----	2.18	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 11:15	
BSD0036-07 (Area2-C6-14)		Soil						Sampled: 04/02/09 14:30		
Lead	EPA 6020	45.8	----	2.21	mg/kg dry	1x	9D02054	04/02/09 23:06	04/03/09 11:21	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:52

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-01 (Area1-G10-14)										
		Soil					Sampled: 04/02/09 11:00			
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D22013	04/22/09 11:50	04/23/09 11:24	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:52

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-01 (Area1-G10-14)		Soil		Sampled: 04/02/09 11:00						
Naphthalene	EPA 8260B	ND	----	38.6	ug/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 01:50	12
Benzene	"	ND	----	5.78	"	"	"	"	"	
Ethylbenzene	"	ND	----	15.4	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	3.86	"	"	"	"	"	
Toluene	"	ND	----	5.78	"	"	"	"	"	
o-Xylene	"	ND	----	19.3	"	"	"	"	"	
m,p-Xylene	"	ND	----	19.3	"	"	"	"	"	
Total Xylenes	"	ND	----	38.6	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			112%		70 - 140 %	"			"	
<i>Toluene-d8</i>			119%		70 - 130 %	"			"	
<i>4-BFB</i>			120%		70 - 130 %	"			"	12
BSD0036-02 (Area1-F10-14)		Soil		Sampled: 04/02/09 11:30						
Naphthalene	EPA 8260B	ND	----	62.8	ug/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 02:16	12
Benzene	"	ND	----	9.41	"	"	"	"	"	
Ethylbenzene	"	ND	----	25.1	"	"	"	"	"	12
Methyl tert-butyl ether	"	ND	----	6.28	"	"	"	"	"	
Toluene	"	ND	----	9.41	"	"	"	"	"	12
o-Xylene	"	ND	----	31.4	"	"	"	"	"	12
m,p-Xylene	"	ND	----	31.4	"	"	"	"	"	12
Total Xylenes	"	ND	----	62.8	"	"	"	"	"	12
<i>Surrogate(s): 1,2-DCA-d4</i>			123%		70 - 140 %	"			"	
<i>Toluene-d8</i>			119%		70 - 130 %	"			"	12
<i>4-BFB</i>			116%		70 - 130 %	"			"	12
BSD0036-03 (Area1-H10-14)		Soil		Sampled: 04/02/09 11:45						
Naphthalene	EPA 8260B	21.4	----	14.6	ug/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 02:41	
Benzene	"	ND	----	2.18	"	"	"	"	"	
Ethylbenzene	"	ND	----	5.82	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.46	"	"	"	"	"	
Toluene	"	ND	----	2.18	"	"	"	"	"	
o-Xylene	"	ND	----	7.28	"	"	"	"	"	
m,p-Xylene	"	ND	----	7.28	"	"	"	"	"	
Total Xylenes	"	ND	----	14.6	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			124%		70 - 140 %	"			"	
<i>Toluene-d8</i>			107%		70 - 130 %	"			"	
<i>4-BFB</i>			110%		70 - 130 %	"			"	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:52
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-04RE1 (Area2-C9-14)		Soil		Sampled: 04/02/09 13:30						
Benzene	EPA 8260B	39.8	----	3.89	ug/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 06:06	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>120%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>122%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>129%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
BSD0036-05 (Area2-C8-14)		Soil		Sampled: 04/02/09 14:00						
Naphthalene	EPA 8260B	ND	----	22.3	ug/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 03:32	I2
Benzene	"	21.8	----	3.34	"	"	"	"	"	
Methyl tert-butyl ether	"	4.92	----	2.23	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>119%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>124%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>124%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
BSD0036-06 (Area2-C7-14)		Soil		Sampled: 04/02/09 14:15						
Methyl tert-butyl ether	EPA 8260B	6.16	----	4.50	ug/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 03:58	
<i>Surrogate(s): Toluene-d8</i>			<i>125%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>123%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
BSD0036-06RE1 (Area2-C7-14)		Soil		Sampled: 04/02/09 14:15						
Naphthalene	EPA 8260B	ND	----	37.7	ug/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 05:14	I2
Benzene	"	6.37	----	5.66	"	"	"	"	"	
Ethylbenzene	"	ND	----	15.1	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>114%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>120%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>118%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
BSD0036-07 (Area2-C6-14)		Soil		Sampled: 04/02/09 14:30						
Naphthalene	EPA 8260B	ND	----	30.7	ug/kg dry	1x	9D02033	04/02/09 20:17	04/03/09 04:23	I2
Benzene	"	25.5	----	4.61	"	"	"	"	"	
Methyl tert-butyl ether	"	3.75	----	3.07	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>122%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>123%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>122%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-04 (Area2-C9-14)		Soil		Sampled: 04/02/09 13:30						
Ethylbenzene	EPA 8260B	0.365	0.0609	0.507	mg/kg dry	1x	9D03002	04/03/09 06:26	04/03/09 18:17	J
Methyl tert-butyl ether	"	ND	0.0507	0.254	"	"	"	"	"	
Naphthalene	"	ND	5.58	10.1	"	"	"	"	"	
Toluene	"	0.157	0.0507	0.507	"	"	"	"	"	J
o-Xylene	"	0.350	0.0863	0.507	"	"	"	"	"	J
m,p-Xylene	"	1.08	0.107	1.01	"	"	"	"	"	J
Xylenes (total)	"	1.43	0.157	1.52	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			98.8%		75 - 125 %	"				"
<i>Toluene-d8</i>			107%		75 - 125 %	"				"
<i>4-BFB</i>			103%		75 - 125 %	"				"

BSD0036-05 (Area2-C8-14)		Soil		Sampled: 04/02/09 14:00						
Ethylbenzene	EPA 8260B	0.0948	0.0813	0.677	mg/kg dry	1x	9D03002	04/03/09 06:26	04/03/09 18:44	J
Toluene	"	0.0880	0.0677	0.677	"	"	"	"	"	J
o-Xylene	"	ND	0.115	0.677	"	"	"	"	"	
m,p-Xylene	"	0.298	0.142	1.35	"	"	"	"	"	J
Xylenes (total)	"	0.406	0.210	2.03	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			98.7%		75 - 125 %	"				"
<i>Toluene-d8</i>			104%		75 - 125 %	"				"
<i>4-BFB</i>			104%		75 - 125 %	"				"

BSD0036-06 (Area2-C7-14)		Soil		Sampled: 04/02/09 14:15						
Toluene	EPA 8260B	ND	0.100	1.00	mg/kg dry	1x	9D03002	04/03/09 06:26	04/03/09 19:10	
o-Xylene	"	ND	0.171	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	0.211	2.01	"	"	"	"	"	
Xylenes (total)	"	ND	0.311	3.01	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			96.0%		75 - 125 %	"				"
<i>Toluene-d8</i>			101%		75 - 125 %	"				"
<i>4-BFB</i>			103%		75 - 125 %	"				"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:52

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-07 (Area2-C6-14)										
		Soil					Sampled: 04/02/09 14:30			
Ethylbenzene	EPA 8260B	0.827	0.107	0.889	mg/kg dry	1x	9D03002	04/03/09 06:26	04/03/09 19:37	J
Toluene	"	0.204	0.0889	0.889	"	"	"	"	"	J
o-Xylene	"	0.569	0.151	0.889	"	"	"	"	"	J
m,p-Xylene	"	2.76	0.187	1.78	"	"	"	"	"	
Xylenes (total)	"	3.33	0.276	2.67	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		99.4%		75 - 125 %	"			"	
	Toluene-d8		98.0%		75 - 125 %	"			"	
	4-BFB		99.0%		75 - 125 %	"			"	

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:52

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0036-01 (Area1-G10-14)		Soil								Sampled: 04/02/09 11:00
Dry Weight	BSOPSP003R0 8	20.1	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	
BSD0036-02 (Area1-F10-14)		Soil								Sampled: 04/02/09 11:30
Dry Weight	BSOPSP003R0 8	14.9	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	
BSD0036-03 (Area1-H10-14)		Soil								Sampled: 04/02/09 11:45
Dry Weight	BSOPSP003R0 8	41.2	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	
BSD0036-04 (Area2-C9-14)		Soil								Sampled: 04/02/09 13:30
Dry Weight	BSOPSP003R0 8	28.7	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	
BSD0036-05 (Area2-C8-14)		Soil								Sampled: 04/02/09 14:00
Dry Weight	BSOPSP003R0 8	25.2	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	
BSD0036-06 (Area2-C7-14)		Soil								Sampled: 04/02/09 14:15
Dry Weight	BSOPSP003R0 8	21.8	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	
BSD0036-07 (Area2-C6-14)		Soil								Sampled: 04/02/09 14:30
Dry Weight	BSOPSP003R0 8	23.6	----	1.00	%	1x	9D02035	04/02/09 15:29	04/03/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02043 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D02043-BLK1)								Extracted: 04/02/09 16:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/02/09 17:00	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.9%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>04/02/09 17:00</i>						
LCS (9D02043-BS1)								Extracted: 04/02/09 16:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	49.7	1.40	5.00	mg/kg wet	1x	--	50.0	99.4%	(80-120)	--	--	04/02/09 17:32	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>04/02/09 17:32</i>						
Duplicate (9D02043-DUP1)				QC Source: BSD0035-01				Extracted: 04/02/09 16:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.28	4.59	mg/kg dry	1x	ND	--	--	--	NR (40)		04/02/09 18:37	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 112%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>04/02/09 18:37</i>						
Matrix Spike (9D02043-MS1)				QC Source: BSD0035-01				Extracted: 04/02/09 16:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	46.7	1.28	4.59	mg/kg dry	1x	ND	40.2	116%	(75-130)	--	--	04/02/09 21:49	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 120%</i>		<i>Limits: 80-140%</i>		<i>"</i>		<i>04/02/09 21:49</i>						

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02015 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D02015-BLK1)

Extracted: 04/02/09 15:23

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 00:40	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 00:40</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D02015-BS1)

Extracted: 04/02/09 15:23

Lube Oil	NWTPH-Dx	67.0	---	25.0	mg/kg wet	1x	--	66.7	100%	(63-125)	--	--	04/03/09 01:02	
Diesel Range Hydrocarbons	"	74.9	---	10.0	"	"	--	"	112%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 01:02</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D02015-DUP1)

QC Source: BSD0036-02

Extracted: 04/02/09 15:23

Kerosene	NWTPH-Dx	1240	---	67.3	mg/kg dry	1x	674	--	--	--	59.0%	(50)	04/03/09 01:23	R3
Diesel Range Hydrocarbons	"	4390	---	67.3	"	"	2120	--	--	--	69.6%	"	"	R3
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 01:23</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>93.8%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D02015-DUP2)

QC Source: BSD0036-05

Extracted: 04/02/09 15:23

Lube Oil	NWTPH-Dx	ND	---	98.9	mg/kg dry	1x	ND	--	--	--	4.30%	(50)	04/03/09 01:44	
Kerosene	"	ND	---	39.6	"	"	ND	--	--	--	12.5%	"	"	
Diesel Range Hydrocarbons	"	ND	---	39.6	"	"	ND	--	--	--	1.36%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 01:44</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D02015-DUP3)

QC Source: BSD0036-02

Extracted: 04/02/09 15:23

Lube Oil	NWTPH-Dx	6100	---	841	mg/kg dry	5x	2960	--	--	--	69.2%	(50)	04/03/09 12:51	R3
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 12:51</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D02015-MS1)

QC Source: BSD0036-02

Extracted: 04/02/09 15:23

Diesel Range Hydrocarbons	NWTPH-Dx	3220	---	66.8	mg/kg dry	1x	2120	446	246%	(46-155)	--	--	04/03/09 02:06	MHA
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 02:06</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>95.3%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02015 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9D02015-MS2)			QC Source: BSD0036-02				Extracted: 04/02/09 15:23							
Lube Oil	NWTPH-Dx	4280	---	835	mg/kg dry	5x	2960	446	296%	(26-150)	--	--	04/03/09 13:13	MHA
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 82.7%</i>		<i>Limits: 54-148%</i>								<i>04/03/09 13:13</i>		
<i>Octacosane</i>		<i>109%</i>		<i>62-142%</i>								<i>"</i>		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:52
--	---	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02054 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D02054-BLK1)								Extracted: 04/02/09 23:06						
Lead	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 09:35	
LCS (9D02054-BS1)								Extracted: 04/02/09 23:06						
Lead	EPA 6020	39.0	---	0.495	mg/kg wet	1x	--	39.6	98.4%	(80-120)	--	--	04/03/09 09:41	
Duplicate (9D02054-DUP1)				QC Source: BSD0035-01				Extracted: 04/02/09 23:06						
Lead	EPA 6020	4.68	---	0.574	mg/kg dry	1x	5.39	--	--	--	14.2% (20)	--	04/03/09 10:00	
Matrix Spike (9D02054-MS1)				QC Source: BSD0035-01				Extracted: 04/02/09 23:06						
Lead	EPA 6020	51.2	---	0.551	mg/kg dry	1x	5.39	44.1	104%	(75-125)	--	--	04/03/09 09:54	
Post Spike (9D02054-PS1)				QC Source: BSD0035-01				Extracted: 04/02/09 23:06						
Lead	EPA 6020	0.108	---		ug/ml	1x	0.00950	0.100	98.4%	(80-120)	--	--	04/03/09 09:48	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:52
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22013 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D22013-BLK1)								Extracted: 04/22/09 11:50						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/23/09 11:04	
Blank (9D22013-BLK2)								Extracted: 04/22/09 11:50						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/23/09 11:07	
LCS (9D22013-BS1)								Extracted: 04/22/09 11:50						
Lead	EPA 6010B	46.4	---	1.00	mg/l	1x	--	50.0	92.7%	(80-120)	--	--	04/23/09 11:11	
Duplicate (9D22013-DUP1)				QC Source: BSD0036-01				Extracted: 04/22/09 11:50						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	ND	--	--	--	2.63% (20)	--	04/23/09 11:17	
Matrix Spike (9D22013-MS1)				QC Source: BSD0036-01				Extracted: 04/22/09 11:50						
Lead	EPA 6010B	46.6	---	1.00	mg/l	1x	0.154	50.0	92.9%	(80-120)	--	--	04/23/09 11:14	
Post Spike (9D22013-PS1)				QC Source: BSD0036-01				Extracted: 04/22/09 11:50						
Lead	EPA 6010B	4.76	---		ug/ml	1x	0.0154	5.00	94.8%	(75-125)	--	--	04/23/09 11:20	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:52
--	---	-----------------------------------

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02033 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D02033-BLK1)													Extracted: 04/02/09 20:17	
Naphthalene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	04/03/09 00:08	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>124%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/03/09 00:08</i>	
<i>Toluene-d8</i>			<i>96.9%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9D02033-BS1)													Extracted: 04/02/09 20:17	
Naphthalene	EPA 8260B	50.8	---	10.0	ug/kg wet	1x	--	50.0	102%	(70-130)	--	--	04/02/09 23:16	
Benzene	"	46.6	---	1.50	"	"	--	"	93.2%	(70-125)	--	--	"	
Ethylbenzene	"	45.2	---	4.00	"	"	--	"	90.4%	"	--	--	"	
Methyl tert-butyl ether	"	48.5	---	1.00	"	"	--	"	97.1%	(70-130)	--	--	"	
Toluene	"	46.4	---	1.50	"	"	--	"	92.8%	(70-125)	--	--	"	
Total Xylenes	"	136	---	10.0	"	"	--	150	90.7%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.9%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/02/09 23:16</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D02033-BSD1)													Extracted: 04/02/09 20:17	
Naphthalene	EPA 8260B	48.4	---	10.0	ug/kg wet	1x	--	50.0	96.8%	(70-130)	4.88% (30)		04/02/09 23:42	
Benzene	"	46.2	---	1.50	"	"	--	"	92.4%	(70-125)	0.948%	"	"	
Ethylbenzene	"	46.4	---	4.00	"	"	--	"	92.9%	"	2.68%	"	"	
Methyl tert-butyl ether	"	46.6	---	1.00	"	"	--	"	93.1%	(70-130)	4.14%	"	"	
Toluene	"	47.0	---	1.50	"	"	--	"	94.0%	(70-125)	1.33%	"	"	
Total Xylenes	"	136	---	10.0	"	"	--	150	90.5%	(70-130)	0.213%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>97.8%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/02/09 23:42</i>	
<i>Toluene-d8</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>103%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/23/09 15:52

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03002 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D03002-BLK1)													Extracted: 04/03/09 06:27	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 17:50	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 97.5% Limits: 75-125% " 04/03/09 17:50</i>														
<i>Toluene-d8 106% 75-125% " "</i>														
<i>4-BFB 103% 75-125% " "</i>														

LCS (9D03002-BS1)													Extracted: 04/03/09 06:27	
Benzene	EPA 8260B	4.37	0.0100	0.0200	mg/kg wet	1x	--	4.00	109%	(75-125)	--	--	04/03/09 16:14	
Ethylbenzene	"	4.13	0.0120	0.100	"	"	--	"	103%	"	--	--	"	
Methyl tert-butyl ether	"	3.98	0.0100	0.0500	"	"	--	"	99.6%	"	--	--	"	
Naphthalene	"	3.68	1.10	2.00	"	"	--	"	91.9%	(60-140)	--	--	"	
Toluene	"	4.22	0.0100	0.100	"	"	--	"	105%	(75-125)	--	--	"	
o-Xylene	"	4.07	0.0170	0.100	"	"	--	"	102%	"	--	--	"	
m,p-Xylene	"	7.89	0.0210	0.200	"	"	--	8.00	98.6%	"	--	--	"	
Xylenes (total)	"	12.0	0.0310	0.300	"	"	--	12.0	99.6%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 100% Limits: 75-125% " 04/03/09 16:14</i>														
<i>Toluene-d8 103% 75-125% " "</i>														
<i>4-BFB 101% 75-125% " "</i>														

LCS Dup (9D03002-BSD1)													Extracted: 04/03/09 06:27	
Benzene	EPA 8260B	4.39	0.0100	0.0200	mg/kg wet	1x	--	4.00	110%	(75-125)	0.411% (20)		04/03/09 16:56	
Ethylbenzene	"	4.21	0.0120	0.100	"	"	--	"	105%	"	1.92%	"	"	
Methyl tert-butyl ether	"	3.93	0.0100	0.0500	"	"	--	"	98.3%	"	1.24%	"	"	
Naphthalene	"	3.81	1.10	2.00	"	"	--	"	95.3%	(60-140)	3.63%	"	"	
Toluene	"	4.28	0.0100	0.100	"	"	--	"	107%	(75-125)	1.44%	"	"	
o-Xylene	"	4.15	0.0170	0.100	"	"	--	"	104%	"	2.09%	"	"	
m,p-Xylene	"	8.06	0.0210	0.200	"	"	--	8.00	101%	"	2.19%	"	"	
Xylenes (total)	"	12.2	0.0310	0.300	"	"	--	12.0	102%	"	2.16%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.6% Limits: 75-125% " 04/03/09 16:56</i>														
<i>Toluene-d8 105% 75-125% " "</i>														
<i>4-BFB 104% 75-125% " "</i>														

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/23/09 15:52
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D02035 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D02035-BLK1)										Extracted: 04/02/09 15:29				
Dry Weight	BSOPSPLO0 3R08	99.5	---	1.00	%	1x	--	--	--	--	--	--	04/03/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:52

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:52

Notes and Definitions

Report Specific Notes:

- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- Q1 - Does not match typical pattern
- Q3 - The chromatographic pattern is not consistent with diesel fuel.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **540036**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: WMCF STAFF		P.O. NUMBER:		in Business Days *	
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses	
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses	
PROJECT NAME: WMCF PHASE II				STD.	
PROJECT NUMBER:				STD.	
SAMPLED BY: MATTHEW MCKEON				OTHER 24-h	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Matrix (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 AREA1-G10-14	4-2-09 / 1100	S	4	PID = 4.0 ppm	01
2 " - F10-14	" / 1130			9.3 ppm	02
3 " - H10-14	" / 1145			5.9 ppm	03
4 AREA2-C9-14	" / 1330			2.4 ppm	04
5 " - C8-14	" / 1400			5.2 ppm	05
6 " - C7-14	" / 1415			2.5 ppm	06
7 " - C6-14	" / 1430			4 ppm	07
8					
9					
10					

* Turnaround Requests less than standards may incur Rush Charges.

RECEIVED BY: **Francisco Lang, Jr** DATE: **4/2/09** TIME: **1500**
 PRINT NAME: **Francisco Lang, Jr** FIRM: **TA-SEA**
 RECEIVED BY: DATE: TIME:
 PRINT NAME: FIRM:
 RECEIVED BY: DATE: TIME:
 PRINT NAME: FIRM:

ADDITIONAL REMARKS: *** w/ Naphthalene + MTBE**

TEMP: **5.0°C** @ Lab 1530 w/o

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: 360

Date: 4/2/09

Date: 4/2

Date: 4/2

Work Order No. BAN0036

Time: 1530

Time: 11:30

Time: 11:00

Client: _____

Initials: ELI

Initials: ELI

Initials: ELI

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler
 Box
 None/Other _____

Ship Container
 On Bottles
 None

_____ Sign By
_____ Date

Bubble Bags
 Styrofoam
 Foam Packs
 None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack
 Loose Ice
 None/Other _____

Placed in freezer #46:
Y or N or NA
Initial/date/time _____

Fed Ex _____ Client

UPS TA Courier

DHL _____ Mid Valley

Servoy _____ TDP

GS _____ Other _____

Cooler Temperature (IR): 5.0 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact?	<u>Y</u> or N	_____	Metals Preserved?	Y or N or <u>NA</u>	_____
Provided by TA?	<u>Y</u> or N	_____	Client QAPP Preserved?	Y or N or <u>NA</u>	_____
Correct Type?	<u>Y</u> or N	_____	Adequate Volume? (for tests requested)	<u>Y</u> or N	_____
#Containers match COC?	<u>Y</u> or N	_____	Water VOAs: Headspace?	Y or N or <u>NA</u>	_____
IDs/time/date match COC?	Y or <u>N</u>	_____	Comments:	_____	_____
Hold Times in hold?	<u>Y</u> or N	_____	_____	_____	_____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N
Has client been contacted regarding non-conformances? _____ Y or N If Y, _____/_____/_____ Date Time

PM Initials: _____ Date: _____ Time: _____

April 06, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/03/09 16:45.
The following list is a summary of the Work Orders contained in this report, generated on 04/06/09
16:27.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0053	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area2-C5-14	BSD0053-01	Soil	04/03/09 10:10	04/03/09 16:45
Area2-B5-14	BSD0053-02	Soil	04/03/09 10:30	04/03/09 16:45
Area2-B6-14	BSD0053-03	Soil	04/03/09 10:40	04/03/09 16:45
Area2-B7-14	BSD0053-04	Soil	04/03/09 10:50	04/03/09 16:45
Area2-B8-14	BSD0053-05	Soil	04/03/09 11:00	04/03/09 16:45
Area2-B9-14	BSD0053-06	Soil	04/03/09 11:05	04/03/09 16:45
Area2-A6-14	BSD0053-07	Soil	04/03/09 11:30	04/03/09 16:45
Area2-A7-14	BSD0053-08	Soil	04/03/09 11:40	04/03/09 16:45
Area2-A8-14	BSD0053-09	Soil	04/03/09 11:50	04/03/09 16:45
Area2-A9-14	BSD0053-10	Soil	04/03/09 12:00	04/03/09 16:45
Area2-D5-11.5	BSD0053-11	Soil	04/03/09 13:20	04/03/09 16:45
Area2-D6-11.5	BSD0053-12	Soil	04/03/09 13:25	04/03/09 16:45
Area2-D7-11.5	BSD0053-13	Soil	04/03/09 13:30	04/03/09 16:45
Area2-D8-11.5	BSD0053-14	Soil	04/03/09 13:35	04/03/09 16:45
Area2-D9-11.5	BSD0053-15	Soil	04/03/09 13:40	04/03/09 16:45
Area1-K9-14	BSD0053-16	Soil	04/03/09 14:00	04/03/09 16:45
Area1-K8-14	BSD0053-17	Soil	04/03/09 14:05	04/03/09 16:45
Area1-K7-14	BSD0053-18	Soil	04/03/09 14:10	04/03/09 16:45

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

Analytical Case Narrative

TestAmerica - Seattle, WA

BSD0053

SAMPLE RECEIPT

The samples were received 04/03/2009 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 2.1 degrees Celsius. For samples Area2-A7-8, Area2-A8-14 and Area2-A9-14, there were no sampled times listed on the sample containers. The labels for samples Area1-K8-14 and Area1-K7-14 listed Area2, not Area1 on the sample containers. All samples were logged in according to the COC document.

PREPARATIONS AND ANALYSIS

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-01 (Area2-C5-14)		Soil								Sampled: 04/03/09 10:10
Gasoline Range Hydrocarbons	NWTPH-Gx	20.6	2.52	9.00	mg/kg dry	1x	9D03029	04/03/09 16:39	04/03/09 20:21	
Surrogate(s): 4-BFB (FID)			153%		80 - 140 %	"				ZX
BSD0053-02 (Area2-B5-14)		Soil								Sampled: 04/03/09 10:30
Gasoline Range Hydrocarbons	NWTPH-Gx	3.31	1.15	4.11	mg/kg dry	1x	9D03029	04/03/09 16:39	04/03/09 21:25	J
Surrogate(s): 4-BFB (FID)			129%		80 - 140 %	"				
BSD0053-03 (Area2-B6-14)		Soil								Sampled: 04/03/09 10:40
Gasoline Range Hydrocarbons	NWTPH-Gx	37.8	16.5	58.8	mg/kg dry	1x	9D03029	04/03/09 16:39	04/03/09 21:57	J
Surrogate(s): 4-BFB (FID)			193%		80 - 140 %	"				ZX
BSD0053-04 (Area2-B7-14)		Soil								Sampled: 04/03/09 10:50
Gasoline Range Hydrocarbons	NWTPH-Gx	41.4	24.5	87.5	mg/kg dry	1x	9D03029	04/03/09 16:39	04/03/09 22:29	J
Surrogate(s): 4-BFB (FID)			194%		80 - 140 %	"				ZX
BSD0053-05 (Area2-B8-14)		Soil								Sampled: 04/03/09 11:00
Gasoline Range Hydrocarbons	NWTPH-Gx	61.5	12.3	43.8	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 00:37	
Surrogate(s): 4-BFB (FID)			243%		80 - 140 %	"				ZX
BSD0053-06 (Area2-B9-14)		Soil								Sampled: 04/03/09 11:05
Gasoline Range Hydrocarbons	NWTPH-Gx	95.6	12.6	44.9	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 01:09	
Surrogate(s): 4-BFB (FID)			222%		80 - 140 %	"				ZX
BSD0053-07 (Area2-A6-14)		Soil								Sampled: 04/03/09 11:30
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	7.21	25.7	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 01:40	
Surrogate(s): 4-BFB (FID)			161%		80 - 140 %	"				ZX
BSD0053-08 (Area2-A7-14)		Soil								Sampled: 04/03/09 11:40
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	14.9	53.0	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 02:12	
Surrogate(s): 4-BFB (FID)			151%		80 - 140 %	"				ZX

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-09 (Area2-A8-14)		Soil		Sampled: 04/03/09 11:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	15.0	53.6	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 02:44	
Surrogate(s): 4-BFB (FID)			153%		80 - 140 %	"				ZX
BSD0053-10 (Area2-A9-14)		Soil		Sampled: 04/03/09 12:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	22.8	81.6	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 03:16	
Surrogate(s): 4-BFB (FID)			213%		80 - 140 %	"				ZX
BSD0053-11 (Area2-D5-11.5)		Soil		Sampled: 04/03/09 13:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	9.81	35.1	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 03:48	
Surrogate(s): 4-BFB (FID)			154%		80 - 140 %	"				ZX
BSD0053-12 (Area2-D6-11.5)		Soil		Sampled: 04/03/09 13:25						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	18.6	66.4	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 04:20	
Surrogate(s): 4-BFB (FID)			206%		80 - 140 %	"				ZX
BSD0053-13 (Area2-D7-11.5)		Soil		Sampled: 04/03/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	16.5	59.1	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 04:52	
Surrogate(s): 4-BFB (FID)			212%		80 - 140 %	"				ZX
BSD0053-14 (Area2-D8-11.5)		Soil		Sampled: 04/03/09 13:35						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	19.6	69.9	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 05:24	
Surrogate(s): 4-BFB (FID)			210%		80 - 140 %	"				ZX
BSD0053-15 (Area2-D9-11.5)		Soil		Sampled: 04/03/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	14.1	50.2	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 06:59	
Surrogate(s): 4-BFB (FID)			271%		80 - 140 %	"				ZX
BSD0053-16 (Area1-K9-14)		Soil		Sampled: 04/03/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	14.1	8.83	31.5	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 07:31	J
Surrogate(s): 4-BFB (FID)			160%		80 - 140 %	"				ZX

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-17 (Area1-K8-14)		Soil			Sampled: 04/03/09 14:05					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	26.6	94.8	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 08:03	
<i>Surrogate(s): 4-BFB (FID)</i>			216%		80 - 140 %	"			"	ZX
BSD0053-18 (Area1-K7-14)		Soil			Sampled: 04/03/09 14:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	3.05	10.9	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 08:35	
<i>Surrogate(s): 4-BFB (FID)</i>			150%		80 - 140 %	"			"	ZX

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-01 (Area2-C5-14)		Soil			Sampled: 04/03/09 10:10					
Lube Oil	NWTPH-Dx	146	----	39.7	mg/kg dry	1x	9D03016	04/03/09 14:48	04/03/09 23:25	
Kerosene	"	ND	----	15.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	87.1	----	15.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			88.1%		54 - 148 %	"			"	
<i>Octacosane</i>			101%		62 - 142 %	"			"	
BSD0053-02 (Area2-B5-14)		Soil			Sampled: 04/03/09 10:30					
Lube Oil	NWTPH-Dx	338	----	29.7	mg/kg dry	1x	9D03016	04/03/09 14:48	04/03/09 23:47	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	70.2	----	11.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			86.8%		54 - 148 %	"			"	
<i>Octacosane</i>			96.1%		62 - 142 %	"			"	
BSD0053-03 (Area2-B6-14)		Soil			Sampled: 04/03/09 10:40					
Lube Oil	NWTPH-Dx	419	----	127	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 00:10	
Kerosene	"	ND	----	50.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	188	----	50.7	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			91.5%		54 - 148 %	"			"	
<i>Octacosane</i>			103%		62 - 142 %	"			"	
BSD0053-04 (Area2-B7-14)		Soil			Sampled: 04/03/09 10:50					
Lube Oil	NWTPH-Dx	ND	----	103	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 00:33	
Kerosene	"	ND	----	41.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	62.8	----	41.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.4%		54 - 148 %	"			"	
<i>Octacosane</i>			97.2%		62 - 142 %	"			"	
BSD0053-05 (Area2-B8-14)		Soil			Sampled: 04/03/09 11:00					
Lube Oil	NWTPH-Dx	ND	----	101	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 02:26	
Kerosene	"	ND	----	40.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	40.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.6%		54 - 148 %	"			"	
<i>Octacosane</i>			101%		62 - 142 %	"			"	

TestAmerica Seattle



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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-06 (Area2-B9-14)		Soil			Sampled: 04/03/09 11:05					
Lube Oil	NWTPH-Dx	ND	----	119	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 02:49	
Kerosene	"	ND	----	47.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	54.0	----	47.7	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			90.0%		54 - 148 %	"				"
<i>Octacosane</i>			101%		62 - 142 %	"				"
BSD0053-07 (Area2-A6-14)		Soil			Sampled: 04/03/09 11:30					
Lube Oil	NWTPH-Dx	556	----	77.5	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 03:12	
Kerosene	"	56.5	----	31.0	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	338	----	31.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.6%		54 - 148 %	"				"
<i>Octacosane</i>			98.0%		62 - 142 %	"				"
BSD0053-08 (Area2-A7-14)		Soil			Sampled: 04/03/09 11:40					
Lube Oil	NWTPH-Dx	202	----	120	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 03:35	
Kerosene	"	ND	----	48.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	97.0	----	48.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			83.7%		54 - 148 %	"				"
<i>Octacosane</i>			97.5%		62 - 142 %	"				"
BSD0053-09 (Area2-A8-14)		Soil			Sampled: 04/03/09 11:50					
Lube Oil	NWTPH-Dx	206	----	125	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 03:57	
Kerosene	"	ND	----	49.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	170	----	49.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			87.3%		54 - 148 %	"				"
<i>Octacosane</i>			98.4%		62 - 142 %	"				"
BSD0053-10 (Area2-A9-14)		Soil			Sampled: 04/03/09 12:00					
Lube Oil	NWTPH-Dx	491	----	133	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 04:20	
Kerosene	"	ND	----	53.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	270	----	53.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.5%		54 - 148 %	"				"
<i>Octacosane</i>			95.2%		62 - 142 %	"				"

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Kate Haney

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-11 (Area2-D5-11.5)		Soil			Sampled: 04/03/09 13:20					
Lube Oil	NWTPH-Dx	209	----	86.9	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 04:42	
Kerosene	"	ND	----	34.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	102	----	34.7	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			82.9%		54 - 148 %	"				
<i>Octacosane</i>			99.4%		62 - 142 %	"				
BSD0053-12 (Area2-D6-11.5)		Soil			Sampled: 04/03/09 13:25					
Lube Oil	NWTPH-Dx	337	----	106	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 05:05	
Kerosene	"	ND	----	42.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	159	----	42.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.5%		54 - 148 %	"				
<i>Octacosane</i>			99.2%		62 - 142 %	"				
BSD0053-13 (Area2-D7-11.5)		Soil			Sampled: 04/03/09 13:30					
Lube Oil	NWTPH-Dx	194	----	98.4	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 05:28	
Kerosene	"	ND	----	39.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	85.4	----	39.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			88.6%		54 - 148 %	"				
<i>Octacosane</i>			99.7%		62 - 142 %	"				
BSD0053-14 (Area2-D8-11.5)		Soil			Sampled: 04/03/09 13:35					
Lube Oil	NWTPH-Dx	173	----	113	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 08:52	
Kerosene	"	ND	----	45.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	76.2	----	45.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.8%		54 - 148 %	"				
<i>Octacosane</i>			95.2%		62 - 142 %	"				
BSD0053-15 (Area2-D9-11.5)		Soil			Sampled: 04/03/09 13:40					
Lube Oil	NWTPH-Dx	507	----	105	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 09:15	
Kerosene	"	ND	----	42.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	195	----	42.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.9%		54 - 148 %	"				
<i>Octacosane</i>			96.9%		62 - 142 %	"				

TestAmerica Seattle

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-16 (Area1-K9-14)		Soil		Sampled: 04/03/09 14:00						
Lube Oil	NWTPH-Dx	245	----	86.2	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 09:38	
Kerosene	"	ND	----	34.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	87.3	----	34.5	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			88.0%		54 - 148 %	"				"
<i>Octacosane</i>			97.0%		62 - 142 %	"				"
BSD0053-17 (Area1-K8-14)		Soil		Sampled: 04/03/09 14:05						
Lube Oil	NWTPH-Dx	ND	----	149	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 10:00	
Kerosene	"	ND	----	59.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	59.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.8%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"
BSD0053-18 (Area1-K7-14)		Soil		Sampled: 04/03/09 14:10						
Lube Oil	NWTPH-Dx	ND	----	43.7	mg/kg dry	1x	9D03016	04/03/09 14:48	04/04/09 10:23	
Kerosene	"	ND	----	17.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	17.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.4%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"

TestAmerica Seattle



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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-01 (Area2-C5-14)		Soil			Sampled: 04/03/09 10:10					
Lead	EPA 6020	62.3	----	0.796	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 09:06	M1
BSD0053-02 (Area2-B5-14)		Soil			Sampled: 04/03/09 10:30					
Lead	EPA 6020	25.4	----	0.571	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 09:12	
BSD0053-03 (Area2-B6-14)		Soil			Sampled: 04/03/09 10:40					
Lead	EPA 6020	217	----	2.56	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 09:18	
BSD0053-04 (Area2-B7-14)		Soil			Sampled: 04/03/09 10:50					
Lead	EPA 6020	79.5	----	2.17	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 09:25	
BSD0053-05 (Area2-B8-14)		Soil			Sampled: 04/03/09 11:00					
Lead	EPA 6020	51.2	----	2.10	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 09:31	
BSD0053-06 (Area2-B9-14)		Soil			Sampled: 04/03/09 11:05					
Lead	EPA 6020	118	----	2.39	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 09:37	
BSD0053-07 (Area2-A6-14)		Soil			Sampled: 04/03/09 11:30					
Lead	EPA 6020	289	----	1.52	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 09:50	
BSD0053-08 (Area2-A7-14)		Soil			Sampled: 04/03/09 11:40					
Lead	EPA 6020	56.5	----	2.36	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 09:56	
BSD0053-09 (Area2-A8-14)		Soil			Sampled: 04/03/09 11:50					
Lead	EPA 6020	136	----	2.46	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 10:03	
BSD0053-10 (Area2-A9-14)		Soil			Sampled: 04/03/09 12:00					
Lead	EPA 6020	79.1	----	2.68	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 10:28	
BSD0053-11 (Area2-D5-11.5)		Soil			Sampled: 04/03/09 13:20					
Lead	EPA 6020	106	----	1.79	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 10:34	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-12 (Area2-D6-11.5)		Soil						Sampled: 04/03/09 13:25		
Lead	EPA 6020	36.2	----	2.04	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 10:40	
BSD0053-13 (Area2-D7-11.5)		Soil						Sampled: 04/03/09 13:30		
Lead	EPA 6020	42.1	----	1.95	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 10:47	
BSD0053-14 (Area2-D8-11.5)		Soil						Sampled: 04/03/09 13:35		
Lead	EPA 6020	34.9	----	2.20	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 10:53	
BSD0053-15 (Area2-D9-11.5)		Soil						Sampled: 04/03/09 13:40		
Lead	EPA 6020	57.0	----	2.20	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 10:59	
BSD0053-16 (Area1-K9-14)		Soil						Sampled: 04/03/09 14:00		
Lead	EPA 6020	125	----	1.75	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 11:06	
BSD0053-17 (Area1-K8-14)		Soil						Sampled: 04/03/09 14:05		
Lead	EPA 6020	23.2	----	3.01	mg/kg dry	1x	9D03040	04/03/09 21:02	04/06/09 11:12	
BSD0053-18RE1 (Area1-K7-14)		Soil						Sampled: 04/03/09 14:10		
Lead	EPA 6020	316	----	1.79	mg/kg dry	2x	9D03040	04/03/09 21:02	04/06/09 11:56	

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-01 (Area2-C5-14)		Soil		Sampled: 04/03/09 10:10						
Benzene	EPA 8260B	0.00439	----	0.00123	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 19:43	
Ethylbenzene	"	0.0369	----	0.00329	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000822	"	"	"	"	"	
Naphthalene	"	0.0146	----	0.00822	"	"	"	"	"	
Toluene	"	0.00801	----	0.00123	"	"	"	"	"	
o-Xylene	"	0.0324	----	0.00411	"	"	"	"	"	
m,p-Xylene	"	0.139	----	0.00411	"	"	"	"	"	
Total Xylenes	"	0.171	----	0.00822	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				123%		70 - 140 %	"			"
<i>Toluene-d8</i>				109%		70 - 130 %	"			"
<i>4-BFB</i>				114%		70 - 130 %	"			"
BSD0053-02 (Area2-B5-14)		Soil		Sampled: 04/03/09 10:30						
Benzene	EPA 8260B	ND	----	0.000925	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 20:09	
Ethylbenzene	"	ND	----	0.00247	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000617	"	"	"	"	"	
Naphthalene	"	ND	----	0.00617	"	"	"	"	"	12
Toluene	"	ND	----	0.000925	"	"	"	"	"	
o-Xylene	"	ND	----	0.00308	"	"	"	"	"	
m,p-Xylene	"	0.00583	----	0.00308	"	"	"	"	"	
Total Xylenes	"	0.00773	----	0.00617	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				125%		70 - 140 %	"			"
<i>Toluene-d8</i>				111%		70 - 130 %	"			"
<i>4-BFB</i>				129%		70 - 130 %	"			12
BSD0053-03 (Area2-B6-14)		Soil		Sampled: 04/03/09 10:40						
Benzene	EPA 8260B	0.181	----	0.00767	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 20:34	
Methyl tert-butyl ether	"	ND	----	0.00512	"	"	"	"	"	
Naphthalene	"	ND	----	0.0512	"	"	"	"	"	12
<i>Surrogate(s): 1,2-DCA-d4</i>				122%		70 - 140 %	"			"
<i>Toluene-d8</i>				127%		70 - 130 %	"			12
<i>4-BFB</i>				128%		70 - 130 %	"			12

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-04 (Area2-B7-14)		Soil		Sampled: 04/03/09 10:50						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00395	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 21:00	
Naphthalene	"	ND	----	0.0395	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				107%	70 - 140 %	"			"	
<i>Toluene-d8</i>				136%	70 - 130 %	"			"	Z1, I2
<i>4-BFB</i>				134%	70 - 130 %	"			"	Z1, I2
BSD0053-05 (Area2-B8-14)		Soil		Sampled: 04/03/09 11:00						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00418	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 21:25	
<i>Surrogate(s): 1,2-DCA-d4</i>				129%	70 - 140 %	"			"	I2
<i>Toluene-d8</i>				139%	70 - 130 %	"			"	Z1, I2
<i>4-BFB</i>				129%	70 - 130 %	"			"	I2
BSD0053-06 (Area2-B9-14)		Soil		Sampled: 04/03/09 11:05						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00502	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 21:50	
<i>Surrogate(s): 1,2-DCA-d4</i>				123%	70 - 140 %	"			"	
<i>Toluene-d8</i>				133%	70 - 130 %	"			"	Z1
<i>4-BFB</i>				120%	70 - 130 %	"			"	
BSD0053-07 (Area2-A6-14)		Soil		Sampled: 04/03/09 11:30						
Benzene	EPA 8260B	ND	----	0.00318	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 22:16	
Ethylbenzene	"	0.00850	----	0.00847	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00212	"	"	"	"	"	
Naphthalene	"	ND	----	0.0212	"	"	"	"	"	I2
Toluene	"	0.00468	----	0.00318	"	"	"	"	"	
o-Xylene	"	ND	----	0.0106	"	"	"	"	"	
m,p-Xylene	"	0.0253	----	0.0106	"	"	"	"	"	
Total Xylenes	"	0.0331	----	0.0212	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				121%	70 - 140 %	"			"	
<i>Toluene-d8</i>				119%	70 - 130 %	"			"	
<i>4-BFB</i>				118%	70 - 130 %	"			"	I2

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-08 (Area2-A7-14)		Soil		Sampled: 04/03/09 11:40						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00399	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 22:42	
o-Xylene	"	ND	----	0.0199	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				121%	70 - 140 %	"			"	I2
<i>Toluene-d8</i>				112%	70 - 130 %	"			"	I2
<i>4-BFB</i>				110%	70 - 130 %	"			"	I2
BSD0053-09 (Area2-A8-14)		Soil		Sampled: 04/03/09 11:50						
Benzene	EPA 8260B	ND	----	0.00636	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 23:07	
Ethylbenzene	"	ND	----	0.0170	"	"	"	"	"	I2
Methyl tert-butyl ether	"	0.00526	----	0.00424	"	"	"	"	"	
Naphthalene	"	ND	----	0.0424	"	"	"	"	"	I2
Toluene	"	ND	----	0.00636	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0212	"	"	"	"	"	I2
m,p-Xylene	"	0.0250	----	0.0212	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0424	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				113%	70 - 140 %	"			"	
<i>Toluene-d8</i>				119%	70 - 130 %	"			"	I2
<i>4-BFB</i>				120%	70 - 130 %	"			"	I2
BSD0053-10 (Area2-A9-14)		Soil		Sampled: 04/03/09 12:00						
Benzene	EPA 8260B	ND	----	0.00522	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 23:33	
Naphthalene	"	ND	----	0.0348	"	"	"	"	"	I2
Toluene	"	ND	----	0.00522	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				110%	70 - 140 %	"			"	
<i>Toluene-d8</i>				136%	70 - 130 %	"			"	I2, Z1
<i>4-BFB</i>				138%	70 - 130 %	"			"	Z1, I2
BSD0053-11 (Area2-D5-11.5)		Soil		Sampled: 04/03/09 13:20						
Benzene	EPA 8260B	ND	----	0.00507	mg/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 23:58	I2
Ethylbenzene	"	ND	----	0.0135	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00338	"	"	"	"	"	
Naphthalene	"	ND	----	0.0338	"	"	"	"	"	I2
Toluene	"	ND	----	0.00507	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0169	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0169	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0338	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				121%	70 - 140 %	"			"	I2
<i>Toluene-d8</i>				135%	70 - 130 %	"			"	I2, Z2
<i>4-BFB</i>				129%	70 - 130 %	"			"	I2

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-12 (Area2-D6-11.5)		Soil			Sampled: 04/03/09 13:25					12
Naphthalene	EPA 8260B	ND	----	0.0445	mg/kg dry	1x	9D03025	04/03/09 18:40	04/04/09 00:24	
Surrogate(s):	1,2-DCA-d4		121%		70 - 140 %	"			"	
	Toluene-d8		137%		70 - 130 %	"			"	Z1
	4-BFB		133%		70 - 130 %	"			"	Z1
BSD0053-13 (Area2-D7-11.5)		Soil			Sampled: 04/03/09 13:30					12
Naphthalene	EPA 8260B	ND	----	0.0366	mg/kg dry	1x	9D03025	04/03/09 18:40	04/04/09 00:49	
Surrogate(s):	1,2-DCA-d4		132%		70 - 140 %	"			"	
	Toluene-d8		127%		70 - 130 %	"			"	
	4-BFB		121%		70 - 130 %	"			"	
BSD0053-14 (Area2-D8-11.5)		Soil			Sampled: 04/03/09 13:35					
Benzene	EPA 8260B	ND	----	0.00689	mg/kg dry	1x	9D03025	04/03/09 18:40	04/04/09 01:15	
Naphthalene	"	ND	----	0.0459	"	"	"	"	"	12
Toluene	"	ND	----	0.00689	"	"	"	"	"	12
Surrogate(s):	1,2-DCA-d4		111%		70 - 140 %	"			"	
	Toluene-d8		135%		70 - 130 %	"			"	Z1, 12
	4-BFB		125%		70 - 130 %	"			"	12
BSD0053-15 (Area2-D9-11.5)		Soil			Sampled: 04/03/09 13:40					
Benzene	EPA 8260B	ND	----	0.00637	mg/kg dry	1x	9D03025	04/03/09 18:40	04/04/09 01:41	
Methyl tert-butyl ether	"	0.0254	----	0.00424	"	"	"	"	"	
Naphthalene	"	ND	----	0.0424	"	"	"	"	"	12
Toluene	"	ND	----	0.00637	"	"	"	"	"	12
Surrogate(s):	1,2-DCA-d4		117%		70 - 140 %	"			"	
	Toluene-d8		127%		70 - 130 %	"			"	12
	4-BFB		124%		70 - 130 %	"			"	12
BSD0053-16 (Area1-K9-14)		Soil			Sampled: 04/03/09 14:00					
Benzene	EPA 8260B	0.00529	----	0.00438	mg/kg dry	1x	9D03025	04/03/09 18:40	04/04/09 02:06	
Ethylbenzene	"	ND	----	0.0117	"	"	"	"	"	12
Methyl tert-butyl ether	"	ND	----	0.00292	"	"	"	"	"	
Naphthalene	"	ND	----	0.0292	"	"	"	"	"	12
o-Xylene	"	ND	----	0.0146	"	"	"	"	"	12
Surrogate(s):	1,2-DCA-d4		124%		70 - 140 %	"			"	
	Toluene-d8		111%		70 - 130 %	"			"	12
	4-BFB		108%		70 - 130 %	"			"	12

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-17 (Area1-K8-14)		Soil		Sampled: 04/03/09 14:05						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00654	mg/kg dry	1x	9D03025	04/03/09 18:40	04/04/09 02:32	
Naphthalene	"	ND	----	0.0654	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>130%</i>		<i>70 - 140 %</i>	"			"	
<i>Toluene-d8</i>			<i>136%</i>		<i>70 - 130 %</i>	"			"	I2, Z1
<i>4-BFB</i>			<i>133%</i>		<i>70 - 130 %</i>	"			"	I2, Z1

BSD0053-18 (Area1-K7-14)		Soil		Sampled: 04/03/09 14:10						
Benzene	EPA 8260B	ND	----	0.00163	mg/kg dry	1x	9D03025	04/03/09 18:40	04/04/09 02:57	
Ethylbenzene	"	ND	----	0.00434	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00109	"	"	"	"	"	
Naphthalene	"	ND	----	0.0109	"	"	"	"	"	
Toluene	"	ND	----	0.00163	"	"	"	"	"	
o-Xylene	"	ND	----	0.00543	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00543	"	"	"	"	"	
Total Xylenes	"	ND	----	0.0109	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>113%</i>		<i>70 - 140 %</i>	"			"	
<i>Toluene-d8</i>			<i>116%</i>		<i>70 - 130 %</i>	"			"	
<i>4-BFB</i>			<i>119%</i>		<i>70 - 130 %</i>	"			"	

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-03 (Area2-B6-14)		Soil		Sampled: 04/03/09 10:40						
Ethylbenzene	EPA 8260B	ND	----	1.18	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 00:45	
Toluene	"	ND	----	1.18	"	"	"	"	"	"
o-Xylene	"	ND	----	1.18	"	"	"	"	"	"
m,p-Xylene	"	ND	----	2.35	"	"	"	"	"	"
Xylenes (total)	"	ND	----	3.53	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>101%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>102%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>101%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSD0053-04 (Area2-B7-14)		Soil		Sampled: 04/03/09 10:50						
Benzene	EPA 8260B	ND	----	0.350	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 01:12	
Ethylbenzene	"	ND	----	1.75	"	"	"	"	"	"
Toluene	"	ND	----	1.75	"	"	"	"	"	"
o-Xylene	"	ND	----	1.75	"	"	"	"	"	"
m,p-Xylene	"	ND	----	3.50	"	"	"	"	"	"
Xylenes (total)	"	ND	----	5.25	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>103%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>102%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>102%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSD0053-05 (Area2-B8-14)		Soil		Sampled: 04/03/09 11:00						
Benzene	EPA 8260B	ND	----	0.175	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 01:39	
Ethylbenzene	"	ND	----	0.877	"	"	"	"	"	"
Naphthalene	"	ND	----	17.5	"	"	"	"	"	"
Toluene	"	ND	----	0.877	"	"	"	"	"	"
o-Xylene	"	ND	----	0.877	"	"	"	"	"	"
m,p-Xylene	"	ND	----	1.75	"	"	"	"	"	"
Xylenes (total)	"	ND	----	2.63	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>101%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-06 (Area2-B9-14)		Soil		Sampled: 04/03/09 11:05						
Benzene	EPA 8260B	0.269	----	0.180	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 02:06	
Ethylbenzene	"	ND	----	0.898	"	"	"	"	"	
Naphthalene	"	ND	----	18.0	"	"	"	"	"	
Toluene	"	ND	----	0.898	"	"	"	"	"	
o-Xylene	"	ND	----	0.898	"	"	"	"	"	
m,p-Xylene	"	ND	----	1.80	"	"	"	"	"	
Xylenes (total)	"	ND	----	2.69	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>102%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>98.8%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>99.7%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSD0053-08 (Area2-A7-14)		Soil		Sampled: 04/03/09 11:40						
Benzene	EPA 8260B	ND	----	0.212	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 02:59	
Ethylbenzene	"	ND	----	1.06	"	"	"	"	"	
Naphthalene	"	ND	----	21.2	"	"	"	"	"	
Toluene	"	ND	----	1.06	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.12	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.18	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>97.0%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>101%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>98.6%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSD0053-10 (Area2-A9-14)		Soil		Sampled: 04/03/09 12:00						
Ethylbenzene	EPA 8260B	ND	----	1.63	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 03:53	
Methyl tert-butyl ether	"	ND	----	0.816	"	"	"	"	"	
o-Xylene	"	ND	----	1.63	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.26	"	"	"	"	"	
Xylenes (total)	"	ND	----	4.89	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>96.3%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>98.2%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-12 (Area2-D6-11.5)		Soil		Sampled: 04/03/09 13:25						
Benzene	EPA 8260B	ND	----	0.265	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 04:47	
Ethylbenzene	"	ND	----	1.33	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.664	"	"	"	"	"	"
Toluene	"	ND	----	1.33	"	"	"	"	"	"
o-Xylene	"	ND	----	1.33	"	"	"	"	"	"
m,p-Xylene	"	ND	----	2.65	"	"	"	"	"	"
Xylenes (total)	"	ND	----	3.98	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>105%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>98.0%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>100%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSD0053-13 (Area2-D7-11.5)		Soil		Sampled: 04/03/09 13:30						
Benzene	EPA 8260B	ND	----	0.236	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 05:13	
Ethylbenzene	"	ND	----	1.18	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.591	"	"	"	"	"	"
Toluene	"	ND	----	1.18	"	"	"	"	"	"
o-Xylene	"	ND	----	1.18	"	"	"	"	"	"
m,p-Xylene	"	ND	----	2.36	"	"	"	"	"	"
Xylenes (total)	"	ND	----	3.54	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>103%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>97.4%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>99.0%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
BSD0053-14 (Area2-D8-11.5)		Soil		Sampled: 04/03/09 13:35						
Ethylbenzene	EPA 8260B	ND	----	1.40	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 05:40	
Methyl tert-butyl ether	"	ND	----	0.699	"	"	"	"	"	"
o-Xylene	"	ND	----	1.40	"	"	"	"	"	"
m,p-Xylene	"	ND	----	2.79	"	"	"	"	"	"
Xylenes (total)	"	ND	----	4.19	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>104%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>96.8%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>97.4%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

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Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-15 (Area2-D9-11.5)		Soil		Sampled: 04/03/09 13:40						
Ethylbenzene	EPA 8260B	ND	----	1.00	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 06:07	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	"
m,p-Xylene	"	ND	----	2.01	"	"	"	"	"	"
Xylenes (total)	"	ND	----	3.01	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>106%</i>		<i>75 - 125 %</i>	"				"
<i>Toluene-d8</i>			<i>94.9%</i>		<i>75 - 125 %</i>	"				"
<i>4-BFB</i>			<i>99.8%</i>		<i>75 - 125 %</i>	"				"
BSD0053-16 (Area1-K9-14)		Soil		Sampled: 04/03/09 14:00						
Toluene	EPA 8260B	ND	----	0.631	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 06:34	
m,p-Xylene	"	ND	----	1.26	"	"	"	"	"	"
Xylenes (total)	"	ND	----	1.89	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>102%</i>		<i>75 - 125 %</i>	"				"
<i>Toluene-d8</i>			<i>96.3%</i>		<i>75 - 125 %</i>	"				"
<i>4-BFB</i>			<i>97.1%</i>		<i>75 - 125 %</i>	"				"
BSD0053-17 (Area1-K8-14)		Soil		Sampled: 04/03/09 14:05						
Benzene	EPA 8260B	ND	----	0.379	mg/kg dry	1x	9D03039	04/03/09 21:24	04/04/09 07:01	
Ethylbenzene	"	ND	----	1.90	"	"	"	"	"	"
Toluene	"	ND	----	1.90	"	"	"	"	"	"
o-Xylene	"	ND	----	1.90	"	"	"	"	"	"
m,p-Xylene	"	ND	----	3.79	"	"	"	"	"	"
Xylenes (total)	"	ND	----	5.69	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>103%</i>		<i>75 - 125 %</i>	"				"
<i>Toluene-d8</i>			<i>96.0%</i>		<i>75 - 125 %</i>	"				"
<i>4-BFB</i>			<i>93.2%</i>		<i>75 - 125 %</i>	"				"

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Kate Haney, Project Manager

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URS Corporation

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-01 (Area2-C5-14)		Soil								Sampled: 04/03/09 10:10
Dry Weight	BSOPSP003R0 8	62.2	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-02 (Area2-B5-14)		Soil								Sampled: 04/03/09 10:30
Dry Weight	BSOPSP003R0 8	83.4	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-03 (Area2-B6-14)		Soil								Sampled: 04/03/09 10:40
Dry Weight	BSOPSP003R0 8	19.5	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-04 (Area2-B7-14)		Soil								Sampled: 04/03/09 10:50
Dry Weight	BSOPSP003R0 8	24.0	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-05 (Area2-B8-14)		Soil								Sampled: 04/03/09 11:00
Dry Weight	BSOPSP003R0 8	24.5	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-06 (Area2-B9-14)		Soil								Sampled: 04/03/09 11:05
Dry Weight	BSOPSP003R0 8	20.9	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-07 (Area2-A6-14)		Soil								Sampled: 04/03/09 11:30
Dry Weight	BSOPSP003R0 8	32.2	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-08 (Area2-A7-14)		Soil								Sampled: 04/03/09 11:40
Dry Weight	BSOPSP003R0 8	20.6	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-09 (Area2-A8-14)		Soil								Sampled: 04/03/09 11:50
Dry Weight	BSOPSP003R0 8	19.9	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-10 (Area2-A9-14)		Soil								Sampled: 04/03/09 12:00
Dry Weight	BSOPSP003R0 8	18.7	----	1.00	%	1x	9D03017	04/03/09 12:49	04/06/09 00:00	
BSD0053-11 (Area2-D5-11.5)		Soil								Sampled: 04/03/09 13:20

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0053-11 (Area2-D5-11.5)		Soil								Sampled: 04/03/09 13:20
Dry Weight	BSOPSP003R0 8	28.8	----	1.00	%	1x	9D03017	04/03/09 14:49	04/06/09 00:00	
BSD0053-12 (Area2-D6-11.5)		Soil								Sampled: 04/03/09 13:25
Dry Weight	BSOPSP003R0 8	23.3	----	1.00	%	1x	9D03017	04/03/09 14:49	04/06/09 00:00	
BSD0053-13 (Area2-D7-11.5)		Soil								Sampled: 04/03/09 13:30
Dry Weight	BSOPSP003R0 8	25.1	----	1.00	%	1x	9D03017	04/03/09 14:49	04/06/09 00:00	
BSD0053-14 (Area2-D8-11.5)		Soil								Sampled: 04/03/09 13:35
Dry Weight	BSOPSP003R0 8	22.1	----	1.00	%	1x	9D03017	04/03/09 14:49	04/06/09 00:00	
BSD0053-15 (Area2-D9-11.5)		Soil								Sampled: 04/03/09 13:40
Dry Weight	BSOPSP003R0 8	23.4	----	1.00	%	1x	9D03017	04/03/09 14:49	04/06/09 00:00	
BSD0053-16 (Area1-K9-14)		Soil								Sampled: 04/03/09 14:00
Dry Weight	BSOPSP003R0 8	28.9	----	1.00	%	1x	9D03017	04/03/09 14:49	04/06/09 00:00	
BSD0053-17 (Area1-K8-14)		Soil								Sampled: 04/03/09 14:05
Dry Weight	BSOPSP003R0 8	16.6	----	1.00	%	1x	9D03017	04/03/09 14:49	04/06/09 00:00	
BSD0053-18 (Area1-K7-14)		Soil								Sampled: 04/03/09 14:10
Dry Weight	BSOPSP003R0 8	56.5	----	1.00	%	1x	9D03017	04/03/09 14:49	04/06/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03029 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D03029-BLK1)													Extracted: 04/03/09 16:39			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 18:12			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.7%</i>			<i>Limits: 80-140%</i>	<i>"</i>								<i>04/03/09 18:12</i>		
LCS (9D03029-BS1)													Extracted: 04/03/09 16:39			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.8	1.40	5.00	mg/kg wet	1x	--	50.0	99.7%	(80-120)	--	--	04/03/09 18:45			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>			<i>Limits: 80-140%</i>	<i>"</i>								<i>04/03/09 18:45</i>		
Duplicate (9D03029-DUP1)													QC Source: BSD0050-01		Extracted: 04/03/09 16:39	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.16	7.71	mg/kg dry	1x	ND	--	--	--	NR (40)		04/03/09 19:49			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 130%</i>			<i>Limits: 80-140%</i>	<i>"</i>								<i>04/03/09 19:49</i>		
Duplicate (9D03029-DUP2)													QC Source: BSD0053-01		Extracted: 04/03/09 16:39	
Gasoline Range Hydrocarbons	NWTPH-Gx	21.1	2.52	9.00	mg/kg dry	1x	20.6	--	--	--	2.43% (40)		04/03/09 20:53			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 155%</i>			<i>Limits: 80-140%</i>	<i>"</i>								<i>04/03/09 20:53</i>	ZX	
Matrix Spike (9D03029-MS1)													QC Source: BSD0050-01		Extracted: 04/03/09 16:39	
Gasoline Range Hydrocarbons	NWTPH-Gx	78.7	2.16	7.71	mg/kg dry	1x	ND	60.0	131%	(75-130)	--	--	04/03/09 23:01	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 136%</i>			<i>Limits: 80-140%</i>	<i>"</i>								<i>04/03/09 23:01</i>		

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03016 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D03016-BLK1)

Extracted: 04/03/09 14:48

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 21:09	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 21:09</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D03016-BS1)

Extracted: 04/03/09 14:48

Lube Oil	NWTPH-Dx	64.7	---	25.0	mg/kg wet	1x	--	66.7	97.1%	(63-125)	--	--	04/03/09 21:31	
Diesel Range Hydrocarbons	"	72.1	---	10.0	"	"	--	"	108%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 21:31</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D03016-DUP1)

QC Source: BSD0053-02

Extracted: 04/03/09 14:48

Lube Oil	NWTPH-Dx	288	---	29.8	mg/kg dry	1x	338	--	--	--	16.2%	(50)	04/03/09 21:54	
Kerosene	"	ND	---	11.9	"	"	ND	--	--	--	28.7%	"	"	
Diesel Range Hydrocarbons	"	54.1	---	11.9	"	"	70.2	--	--	--	26.0%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 21:54</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>98.1%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D03016-DUP2)

QC Source: BSD0053-18

Extracted: 04/03/09 14:48

Lube Oil	NWTPH-Dx	57.8	---	43.7	mg/kg dry	1x	ND	--	--	--	92.5%	(50)	04/03/09 22:17	R3
Kerosene	"	ND	---	17.5	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	20.5	---	17.5	"	"	ND	--	--	--	73.0%	"	"	R3
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>88.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 22:17</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D03016-MS1)

QC Source: BSD0053-02

Extracted: 04/03/09 14:48

Lube Oil	NWTPH-Dx	430	---	29.7	mg/kg dry	1x	338	79.1	116%	(26-150)	--	--	04/03/09 22:39	
Diesel Range Hydrocarbons	"	144	---	11.9	"	"	70.2	"	92.8%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>84.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/03/09 22:39</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>96.2%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03040	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D03040-BLK1)								Extracted: 04/03/09 21:02						
Lead	EPA 6020	ND	---	0.481	mg/kg wet	1x	--	--	--	--	--	--	04/06/09 08:03	
LCS (9D03040-BS1)								Extracted: 04/03/09 21:02						
Lead	EPA 6020	39.8	---	0.510	mg/kg wet	1x	--	40.8	97.5%	(80-120)	--	--	04/06/09 08:09	
Duplicate (9D03040-DUP1)				QC Source: BSD0053-01				Extracted: 04/03/09 21:02						
Lead	EPA 6020	73.4	---	0.781	mg/kg dry	1x	62.3	--	--	--	16.3% (20)	--	04/06/09 08:34	
Matrix Spike (9D03040-MS1)				QC Source: BSD0053-01				Extracted: 04/03/09 21:02						
Lead	EPA 6020	184	---	0.804	mg/kg dry	1x	62.3	64.3	189%	(75-125)	--	--	04/06/09 08:22	M1
Matrix Spike (9D03040-MS2)				QC Source: BSD0054-01				Extracted: 04/03/09 21:02						
Lead	EPA 6020	46.8	---	0.560	mg/kg dry	1x	2.92	44.8	97.8%	(75-125)	--	--	04/06/09 08:28	
Post Spike (9D03040-PS1)				QC Source: BSD0053-01				Extracted: 04/03/09 21:02						
Lead	EPA 6020	0.181	---		ug/ml	1x	0.0783	0.100	102%	(80-120)	--	--	04/06/09 08:16	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D03025-BLK1)

Extracted: 04/03/09 17:40

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 18:52	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D03025-BLK1)

Extracted: 04/03/09 17:40

Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 18:52	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	C5
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	107%	Limits:	70-140%	"	04/03/09 18:52
	Toluene-d8		100%		70-130%	"	"
	4-BFB		100%		70-130%	"	"

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D03025-BS1)													Extracted: 04/03/09 17:40	
Acetone	EPA 8260B	0.544	---	0.0400	mg/kg wet	1x	--	0.500	109%	(60-140)	--	--	04/03/09 18:01	
Benzene	"	0.0446	---	0.00150	"	"	--	0.0500	89.2%	(70-125)	--	--	"	
2-Butanone	"	0.556	---	0.0300	"	"	--	0.500	111%	(60-140)	--	--	"	
Carbon disulfide	"	0.0384	---	0.00300	"	"	--	0.0500	76.7%	(70-130)	--	--	"	
Chlorobenzene	"	0.0456	---	0.00200	"	"	--	"	91.2%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0458	---	0.00200	"	"	--	"	91.5%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0434	---	0.00300	"	"	--	"	86.8%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0454	---	0.00300	"	"	--	"	90.8%	(75-125)	--	--	"	
Ethylbenzene	"	0.0458	---	0.00400	"	"	--	"	91.5%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0490	---	0.0100	"	"	--	"	98.1%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.564	---	0.0300	"	"	--	0.500	113%	(60-140)	--	--	"	
Naphthalene	"	0.0470	---	0.0100	"	"	--	0.0500	94.1%	(70-130)	--	--	"	
Tetrachloroethene	"	0.0466	---	0.00200	"	"	--	"	93.1%	(70-125)	--	--	"	
Toluene	"	0.0450	---	0.00150	"	"	--	"	90.1%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0453	---	0.00250	"	"	--	"	90.6%	(70-130)	--	--	"	
Trichloroethene	"	0.0454	---	0.00250	"	"	--	"	90.8%	(70-125)	--	--	"	
Total Xylenes	"	0.137	---	0.0100	"	"	--	0.150	91.1%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 99.4% Limits: 70-140% "</i>													<i>04/03/09 18:01</i>	
<i>Toluene-d8 98.6% 70-130% "</i>													<i>"</i>	
<i>4-BFB 104% 70-130% "</i>													<i>"</i>	

LCS Dup (9D03025-BSD1)													Extracted: 04/03/09 17:40	
Acetone	EPA 8260B	0.614	---	0.0400	mg/kg wet	1x	--	0.500	123%	(60-140)	12.0% (30)		04/03/09 18:26	
Benzene	"	0.0493	---	0.00150	"	"	--	0.0500	98.6%	(70-125)	10.0%	"	"	
2-Butanone	"	0.570	---	0.0300	"	"	--	0.500	114%	(60-140)	2.56%	"	"	
Carbon disulfide	"	0.0428	---	0.00300	"	"	--	0.0500	85.5%	(70-130)	10.8%	"	"	
Chlorobenzene	"	0.0488	---	0.00200	"	"	--	"	97.6%	(70-125)	6.80%	"	"	
1,1-Dichloroethane	"	0.0513	---	0.00200	"	"	--	"	103%	(75-125)	11.4%	"	"	
1,1-Dichloroethene	"	0.0483	---	0.00300	"	"	--	"	96.5%	(70-130)	10.6%	"	"	
cis-1,2-Dichloroethene	"	0.0514	---	0.00300	"	"	--	"	103%	(75-125)	12.3%	"	"	
Ethylbenzene	"	0.0489	---	0.00400	"	"	--	"	97.8%	(70-125)	6.65%	"	"	
Hexachlorobutadiene	"	0.0556	---	0.0100	"	"	--	"	111%	(70-130)	12.5%	"	"	
4-Methyl-2-pentanone	"	0.561	---	0.0300	"	"	--	0.500	112%	(60-140)	0.483%	"	"	
Naphthalene	"	0.0544	---	0.0100	"	"	--	0.0500	109%	(70-130)	14.5%	"	"	
Tetrachloroethene	"	0.0492	---	0.00200	"	"	--	"	98.5%	(70-125)	5.57%	"	"	
Toluene	"	0.0487	---	0.00150	"	"	--	"	97.5%	"	7.91%	"	"	
1,1,1-Trichloroethane	"	0.0504	---	0.00250	"	"	--	"	101%	(70-130)	10.7%	"	"	
Trichloroethene	"	0.0488	---	0.00250	"	"	--	"	97.7%	(70-125)	7.28%	"	"	
Total Xylenes	"	0.145	---	0.0100	"	"	--	0.150	96.9%	(70-130)	6.22%	"	"	

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Kate Haney, Project Manager

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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LCS Dup (9D03025-BSD1)

Extracted: 04/03/09 17:40

Surrogate(s):	1,2-DCA-d4	Recovery:	103%	Limits:	70-140%	1x							04/03/09 18:26	
	Toluene-d8		99.1%		70-130%	"							"	
	4-BFB		98.1%		70-130%	"							"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/06/09 16:27
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03039 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D03039-BLK1)													Extracted: 04/03/09 21:24	
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 23:25	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/03/09 23:25</i>	
<i>Toluene-d8</i>		<i>103%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		
<i>4-BFB</i>		<i>103%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		

LCS (9D03039-BS1)													Extracted: 04/03/09 21:24	
Benzene	EPA 8260B	3.81	---	0.0200	mg/kg wet	1x	--	4.00	95.2%	(75-125)	--	--	04/03/09 21:56	
Ethylbenzene	"	4.09	---	0.100	"	"	--	"	102%	"	--	--	"	
Methyl tert-butyl ether	"	3.78	---	0.0500	"	"	--	"	94.6%	"	--	--	"	
Naphthalene	"	3.87	---	2.00	"	"	--	"	96.8%	(60-140)	--	--	"	
Toluene	"	4.02	---	0.100	"	"	--	"	101%	(75-125)	--	--	"	
o-Xylene	"	3.93	---	0.100	"	"	--	"	98.4%	"	--	--	"	
m,p-Xylene	"	7.87	---	0.200	"	"	--	8.00	98.4%	"	--	--	"	
Xylenes (total)	"	11.8	---	0.300	"	"	--	12.0	98.4%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/03/09 21:56</i>	
<i>Toluene-d8</i>		<i>99.0%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		
<i>4-BFB</i>		<i>96.8%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		

LCS Dup (9D03039-BSD1)													Extracted: 04/03/09 21:24	
Benzene	EPA 8260B	3.83	---	0.0200	mg/kg wet	1x	--	4.00	95.8%	(75-125)	0.576% (20)	--	04/03/09 22:23	
Ethylbenzene	"	3.94	---	0.100	"	"	--	"	98.6%	"	3.71%	"	"	
Methyl tert-butyl ether	"	3.83	---	0.0500	"	"	--	"	95.7%	"	1.16%	"	"	
Naphthalene	"	4.02	---	2.00	"	"	--	"	100%	(60-140)	3.65%	"	"	
Toluene	"	3.88	---	0.100	"	"	--	"	97.1%	(75-125)	3.54%	"	"	
o-Xylene	"	3.79	---	0.100	"	"	--	"	94.8%	"	3.70%	"	"	
m,p-Xylene	"	7.47	---	0.200	"	"	--	8.00	93.4%	"	5.21%	"	"	
Xylenes (total)	"	11.3	---	0.300	"	"	--	12.0	93.9%	"	4.71%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/03/09 22:23</i>	
<i>Toluene-d8</i>		<i>102%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		
<i>4-BFB</i>		<i>99.2%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/06/09 16:27
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03017 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D03017-BLK1)										Extracted: 04/03/09 12:49				
Dry Weight	BSOPSP00 3R08	99.9	---	1.00	%	1x	--	--	--	--	--	--	04/06/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/06/09 16:27

Notes and Definitions

Report Specific Notes:

- C5 - Calibration Verification recovery was below the method control limit for this analyte. An additional check standard was analyzed at the reporting limit to ensure instrument sensitivity at the reporting limit. Samples ND.
- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z1 - Surrogate recovery was above acceptance limits.
- Z2 - Surrogate recovery was above the acceptance limits. Data not impacted.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **600053**

CLIENT: Conoco Phillips		INVOICE TO: CP		PRESERVATIVE		REQUESTED ANALYSES		TURNAROUND REQUEST		
REPORT TO: Wmcp Staff		ADDRESS:		P.O. NUMBER:				in Business Days *		
PHONE:		FAX:						Organic & Inorganic Analyses		
PROJECT NAME: Wmcp Pit II								Petroleum Hydrocarbon Analyses		
PROJECT NUMBER:								STD.		
SAMPLED BY: MATT MCKEON / JERRY BAKER		SAMPLING DATE/TIME		DATE		TIME		OTHER		
CLIENT SAMPLE IDENTIFICATION		DATE/TIME		DATE		TIME		Specify: 24 hr.		
								* Turnaround Request less than standard may incur Rush Charges.		
1	A62-05-14	43-09	/ 1010	✓	✓	✓	✓	4	PEDE = 6.1ppm	01
2	"	B5-14	" / 1030	✓	✓	✓	✓		6.9ppm	02
3	"	B6-14	" / 1040	✓	✓	✓	✓		11.5ppm	03
4	"	B7-14	" / 1050	✓	✓	✓	✓		4ppm	04
5	"	B8-14	" / 1100	✓	✓	✓	✓		6.7ppm	05
6	"	B9-14	" / 1105	✓	✓	✓	✓		6.4ppm	06
7	A5-14	"	" / 1150	✓	✓	✓	✓			
8	"	A6-14	" / 1130	✓	✓	✓	✓		<1ppm	07
9	"	A7-14	" / 1140	✓	✓	✓	✓		<1ppm	08
10	"	A8-14	" / 1150	✓	✓	✓	✓		<1ppm	09

RECEIVED BY: **Franc. Scolding Jr.** DATE: **4-3-09** TIME: **1605**
 PRINT NAME: **Franc. Scolding Jr.** FIRM: **JT-SEA**
 RECEIVED BY: **WPS** DATE: **4-3-09** TIME: **1605**
 PRINT NAME: **WPS** FIRM: **WPS**

ADDITIONAL REMARKS: *** MATTHEW MCKEON** FIRM: **WPS**
*** MATTHEW MCKEON** FIRM: **WPS**
ALL SAMPLES CONTAIN SAND/DUST/WOOD + UP TO 20% SANDY SILT
*** MATTHEW MCKEON + WPS**

TestAmerica

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 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BAN053**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST			
REPORT TO: W.M.C.P STAFF		P.O. NUMBER:		in Business Days *			
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses			
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses			
PROJECT NAME: W.M.C.P PH II				STD.			
PROJECT NUMBER:				STD.			
SAMPLED BY: MATTHEW MCKEON / JERRY BAKER				OTHER Specify: 24 hrs			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	W.M.C.P	CP	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 Area 2-A9-14	4-3-09 / 1200	X	X	S	4	RED = < 1.0 ppm	10
2 " -D5-11.5	" / 1320	X	X			< 1 ppm w/1	
3 " -D6-11.5	" / 1325	X	X			1 ppm	12
4 " -D7-11.5	" / 1330	X	X			2.6 ppm	13
5 " -D8-11.5	" / 1335	X	X			2 ppm	14
6 " -D9-11.5	" / 1340	X	X			1.7 ppm	15
7 Area 1-K9-14	" / 1400	X	X			5.4 ppm	16
8 " -K8-14	" / 1405	X	X			1.3 ppm	17
9 " -K7-14	" / 1410	X	X			< 1 ppm	18
10							

* Turnaround Requests less than standard may incur Rush Charges.

RECEIVED BY: **Francisco Lungs, Jr** DATE: **4/3/05**
 PRINT NAME: **Francisco Lungs, Jr** FIRM: **TA-SEA** TIME: **1605**
 RECEIVED BY: DATE: TIME:
 PRINT NAME: FIRM: TIME:

TEMP: **21** PAGE **1** OF **2**
 ADDITIONAL REMARKS: **2 Negative + MTC**

TAT: _____ Paperwork to PM - Date: _____ Time: _____ Non-Conformances? _____
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ **Logged-in By:** _____ **Unpacked/Labeled By:** _____ **Cooler ID:** _____
(applies to temp at receipt)
 Date: 4/3 Date: 4/3 Date: 4/3 Work Order No. BAD0053
 Time: 10:15 Time: 10:45 Time: 17:00 Client: _____
 Initials: CL/FL Initials: CL Initials: PL/AD Project: _____
 (written by CL)

Container Type: _____ **COC Seals:** _____ **Packing Material:** _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 Box _____ On Bottles _____ Date _____ Foam Packs _____
 None/Other _____ None _____ None/Other _____

Refrigerant: _____ **Soil Stir Bars/Encores:** _____ **Received Via: Bill#:** _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client _____
 Loose Ice _____ Y or N or NA. _____ UPS _____ TA Courier _____
 None/Other _____ Initial/date/time _____ DHL _____ Mid Valley _____
 Servoy _____ TDP _____
 GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 2.1 °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	<u>Y</u> or N	<u>Y</u> or N	<u>Y</u> or N	<u>Y</u> or N or <u>NA</u>
Intact?	_____	_____	_____	_____
Provided by TA?	_____	_____	_____	_____
Correct Type?	_____	_____	_____	_____
#Containers match COC?	_____	_____	_____	_____
IDs/time/date match COC?	Y or <u>N</u>	_____	_____	_____
Hold Times in hold?	<u>Y</u> or N	_____	_____	_____
			Metals Preserved?	Y or N or <u>NA</u>
			Client QAPP Preserved?	Y or N or <u>NA</u>
			Adequate Volume? (for tests requested)	<u>Y</u> or N
			Water VOAs: Headspace?	Y or N or NA
			Comments:	_____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete
 Comments, Problems _____

Total access set up? _____ Y or N
 Has client been contacted regarding non-conformances? _____ Y or N If Y, _____ / _____
 Date Time

PM Initials: _____ Date: _____ Time: _____

April 06, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 04/03/09 16:45.
The following list is a summary of the Work Orders contained in this report, generated on 04/06/09
16:56.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0054	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/06/09 16:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot34-10	BSD0054-01	Soil	04/03/09 12:50	04/03/09 16:45

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/06/09 16:56
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0054-01 (Amazon Lot34-10)		Soil			Sampled: 04/03/09 12:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.86	mg/kg dry	1x	9D03029	04/03/09 16:39	04/04/09 09:07	
Surrogate(s): 4-BFB (FID)			110%		80 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/06/09 16:56

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0054-01 (Amazon Lot34-10)										
		Soil					Sampled: 04/03/09 12:50			
Lube Oil	NWTPH-Dx	27.1	----	26.7	mg/kg dry	1x	9D03033	04/03/09 18:39	04/04/09 08:29	
Kerosene	"	ND	----	10.7	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	10.7	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				<i>91.0%</i>	<i>60 - 135 %</i>	<i>"</i>				<i>"</i>
<i>Octacosane</i>				<i>110%</i>	<i>75 - 125 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/06/09 16:56

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0054-01 (Amazon Lot34-10)										
		Soil					Sampled: 04/03/09 12:50			
Acetone	EPA 8260B	ND	----	23.3	ug/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 19:18	
Benzene	"	ND	----	0.873	"	"	"	"	"	
Bromobenzene	"	ND	----	2.91	"	"	"	"	"	
Bromochloromethane	"	ND	----	2.91	"	"	"	"	"	
Bromodichloromethane	"	ND	----	2.91	"	"	"	"	"	
Bromoform	"	ND	----	2.91	"	"	"	"	"	
Bromomethane	"	ND	----	5.82	"	"	"	"	"	
2-Butanone	"	ND	----	17.5	"	"	"	"	"	
n-Butylbenzene	"	ND	----	2.91	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	2.91	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	2.91	"	"	"	"	"	
Carbon disulfide	"	ND	----	1.75	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	2.91	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.16	"	"	"	"	"	
Chloroethane	"	ND	----	2.91	"	"	"	"	"	
Chloroform	"	ND	----	1.46	"	"	"	"	"	
Chloromethane	"	ND	----	5.82	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	2.91	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	2.91	"	"	"	"	"	
Dibromochloromethane	"	ND	----	2.91	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	5.82	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	2.91	"	"	"	"	"	
Dibromomethane	"	ND	----	2.91	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	2.91	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	2.91	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	2.91	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	2.91	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.16	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.728	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.75	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.75	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.46	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	2.91	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	2.91	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	5.82	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	2.91	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	2.91	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.728	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.33	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	5.82	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.582	"	"	"	"	"	
n-Hexane	"	ND	----	2.91	"	"	"	"	"	
2-Hexanone	"	ND	----	17.5	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0054-01 (Amazon Lot34-10)										
		Soil								
							Sampled: 04/03/09 12:50			
Isopropylbenzene	EPA 8260B	ND	----	2.91	ug/kg dry	1x	9D03025	04/03/09 18:40	04/03/09 19:18	
p-Isopropyltoluene	"	7.76	----	2.91	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	17.5	"	"	"	"	"	
Methylene chloride	"	ND	----	6.98	"	"	"	"	"	C5
Naphthalene	"	ND	----	5.82	"	"	"	"	"	
n-Propylbenzene	"	ND	----	2.91	"	"	"	"	"	
Styrene	"	ND	----	1.46	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	5.82	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	5.82	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	2.91	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	2.91	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.16	"	"	"	"	"	
Toluene	"	ND	----	0.873	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.46	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.16	"	"	"	"	"	
Trichloroethene	"	2.69	----	1.46	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	2.91	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	2.91	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	2.91	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	2.91	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.46	"	"	"	"	"	
o-Xylene	"	ND	----	2.91	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.91	"	"	"	"	"	
Total Xylenes	"	ND	----	5.82	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>117%</i>						<i>70 - 140 %</i>
	<i>Toluene-d8</i>			<i>99.2%</i>						<i>70 - 130 %</i>
	<i>4-BFB</i>			<i>98.7%</i>						<i>70 - 130 %</i>

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/06/09 16:56

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0054-01 (Amazon Lot34-10)										
		Soil					Sampled: 04/03/09 12:50			
Acenaphthene	8270C-SIM	ND	----	0.0107	mg/kg dry	1x	9D03034	04/03/09 18:39	04/06/09 11:18	
Acenaphthylene	"	ND	----	0.0107	"	"	"	"	"	
Anthracene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (b & k) fluoranthene	"	ND	----	0.0214	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0107	"	"	"	"	"	
Chrysene	"	ND	----	0.0107	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0107	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0107	"	"	"	"	"	
Fluorene	"	ND	----	0.0107	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0107	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	
Naphthalene	"	ND	----	0.0107	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0107	"	"	"	"	"	
Pyrene	"	ND	----	0.0107	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			85.5%		46 - 125 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/06/09 16:56
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0054-01	(Amazon Lot34-10)	Soil			Sampled: 04/03/09 12:50					
Dry Weight	BSOPSPL003R0 8	92.0	----	1.00	%	1x	9D03036	04/03/09 18:41	04/06/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03029 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D03029-BLK1)													Extracted: 04/03/09 16:39			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/03/09 18:12			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.7%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>04/03/09 18:12</i>			
LCS (9D03029-BS1)													Extracted: 04/03/09 16:39			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.8	---	5.00	mg/kg wet	1x	--	50.0	99.7%	(80-120)	--	--	04/03/09 18:45			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>04/03/09 18:45</i>			
Duplicate (9D03029-DUP1)													QC Source: BSD0050-01		Extracted: 04/03/09 16:39	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	7.71	mg/kg dry	1x	ND	--	--	--	NR (40)		04/03/09 19:49			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 130%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>04/03/09 19:49</i>			
Duplicate (9D03029-DUP2)													QC Source: BSD0053-01		Extracted: 04/03/09 16:39	
Gasoline Range Hydrocarbons	NWTPH-Gx	21.1	---	9.00	mg/kg dry	1x	20.6	--	--	--	2.43% (40)		04/03/09 20:53			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 155%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>04/03/09 20:53</i>	ZX		
Matrix Spike (9D03029-MS1)													QC Source: BSD0050-01		Extracted: 04/03/09 16:39	
Gasoline Range Hydrocarbons	NWTPH-Gx	78.7	---	7.71	mg/kg dry	1x	ND	60.0	131%	(75-130)	--	--	04/03/09 23:01	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 136%</i>			<i>Limits: 80-140%</i>	<i>"</i>							<i>04/03/09 23:01</i>			

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03033 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D03033-BLK1)

Extracted: 04/03/09 18:39

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/04/09 06:58	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 98.0%</i>		<i>Limits: 60-135%</i>		<i>"</i>							<i>04/04/09 06:58</i>	
<i>Octacosane</i>		<i>108%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9D03033-BS1)

Extracted: 04/03/09 18:39

Lube Oil	NWTPH-Dx	64.0	---	25.0	mg/kg wet	1x	--	66.7	96.0%	(63-125)	--	--	04/04/09 07:21	
Diesel Range Hydrocarbons	"	74.2	---	10.0	"	"	--	"	111%	(75-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 98.6%</i>		<i>Limits: 60-135%</i>		<i>"</i>							<i>04/04/09 07:21</i>	
<i>Octacosane</i>		<i>112%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D03033-DUP1)

QC Source: BSD0054-01

Extracted: 04/03/09 18:39

Lube Oil	NWTPH-Dx	ND	---	27.1	mg/kg dry	1x	27.1	--	--	--	1.28% (40)	--	04/04/09 07:44	
Kerosene	"	ND	---	10.8	"	"	ND	--	--	--	NR	"	"	
Diesel Range Hydrocarbons	"	ND	---	10.8	"	"	ND	--	--	--	11.9%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 92.5%</i>		<i>Limits: 60-135%</i>		<i>"</i>							<i>04/04/09 07:44</i>	
<i>Octacosane</i>		<i>105%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D03033-MS1)

QC Source: BSD0054-01

Extracted: 04/03/09 18:39

Lube Oil	NWTPH-Dx	86.6	---	27.2	mg/kg dry	1x	27.1	72.5	82.0%	(26-150)	--	--	04/04/09 08:07	
Diesel Range Hydrocarbons	"	83.1	---	10.9	"	"	9.42	"	102%	(40-145)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 96.3%</i>		<i>Limits: 60-135%</i>		<i>"</i>							<i>04/04/09 08:07</i>	
<i>Octacosane</i>		<i>109%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03040	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D03040-BLK1)

Extracted: 04/03/09 21:02

Arsenic	EPA 6020	ND	---	0.481	mg/kg wet	1x	--	--	--	--	--	--	04/06/09 08:03	
Cadmium	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.962	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	4.81	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.481	"	"	--	--	--	--	--	--	"	

LCS (9D03040-BS1)

Extracted: 04/03/09 21:02

Silver	EPA 6020	39.5	---	0.510	mg/kg wet	1x	--	40.8	96.9%	(80-120)	--	--	04/06/09 08:09	
Lead	"	39.8	---	0.510	"	"	--	"	97.5%	"	--	--	"	
Chromium	"	40.2	---	0.510	"	"	--	"	98.5%	"	--	--	"	
Arsenic	"	38.6	---	0.510	"	"	--	"	94.7%	"	--	--	"	
Barium	"	41.0	---	5.10	"	"	--	"	100%	"	--	--	"	
Selenium	"	38.1	---	1.02	"	"	--	"	93.4%	"	--	--	"	
Cadmium	"	38.4	---	0.510	"	"	--	"	94.1%	"	--	--	"	

Duplicate (9D03040-DUP1)

QC Source: BSD0053-01

Extracted: 04/03/09 21:02

Silver	EPA 6020	ND	---	0.781	mg/kg dry	1x	ND	--	--	--	NR (20)	--	04/06/09 08:34	
Selenium	"	ND	---	1.56	"	"	ND	--	--	--	NR	"	"	
Lead	"	73.4	---	0.781	"	"	62.3	--	--	--	16.3%	"	"	
Arsenic	"	3.90	---	0.781	"	"	3.43	--	--	--	12.9%	"	"	
Barium	"	78.9	---	7.81	"	"	69.6	--	--	--	12.6%	"	"	
Cadmium	"	ND	---	0.781	"	"	ND	--	--	--	9.47%	"	"	
Chromium	"	25.1	---	0.781	"	"	25.0	--	--	--	0.462%	"	"	

Matrix Spike (9D03040-MS1)

QC Source: BSD0053-01

Extracted: 04/03/09 21:02

Arsenic	EPA 6020	61.6	---	0.804	mg/kg dry	1x	3.43	64.3	90.5%	(75-125)	--	--	04/06/09 08:22	
Selenium	"	58.4	---	1.61	"	"	ND	"	90.8%	"	--	--	"	
Cadmium	"	60.5	---	0.804	"	"	0.263	"	93.6%	"	--	--	"	
Chromium	"	97.8	---	0.804	"	"	25.0	"	113%	"	--	--	"	
Lead	"	184	---	0.804	"	"	62.3	"	189%	"	--	--	"	M1
Silver	"	56.5	---	0.804	"	"	ND	"	87.8%	"	--	--	"	
Barium	"	156	---	8.04	"	"	69.6	"	134%	"	--	--	"	M1

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03040	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Matrix Spike (9D03040-MS2)			QC Source: BSD0054-01					Extracted: 04/03/09 21:02							
Arsenic	EPA 6020	42.5	---	0.560	mg/kg dry	1x	1.85	44.8	90.6%	(75-125)	--	--	04/06/09 08:28		
Selenium	"	40.6	---	1.12	"	"	ND	"	90.5%	"	--	--	"		
Silver	"	37.7	---	0.560	"	"	ND	"	84.0%	"	--	--	"		
Lead	"	46.8	---	0.560	"	"	2.92	"	97.8%	"	--	--	"		
Chromium	"	67.6	---	0.560	"	"	23.3	"	98.9%	"	--	--	"		
Cadmium	"	42.2	---	0.560	"	"	0.315	"	93.5%	"	--	--	"		
Barium	"	86.9	---	5.60	"	"	42.7	"	98.6%	"	--	--	"		

Post Spike (9D03040-PS1)			QC Source: BSD0053-01					Extracted: 04/03/09 21:02							
Selenium	EPA 6020	0.0944	---		ug/ml	1x	0.000180	0.100	94.3%	(80-120)	--	--	04/06/09 08:16		
Chromium	"	0.132	---		"	"	0.0314	"	99.6%	"	--	--	"		
Lead	"	0.181	---		"	"	0.0783	"	102%	"	--	--	"		
Barium	"	0.188	---		"	"	0.0874	"	101%	"	--	--	"		
Arsenic	"	0.101	---		"	"	0.00431	0.0995	97.2%	"	--	--	"		
Cadmium	"	0.0974	---		"	"	0.000330	0.100	97.1%	"	--	--	"		
Silver	"	0.0946	---		"	"	0.000130	"	94.4%	"	--	--	"		

QC Batch: 9D06017	Soil Preparation Method: EPA 7471A
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9D06017-BLK1)								Extracted: 04/06/09 11:46							
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	04/06/09 13:06		
LCS (9D06017-BS1)								Extracted: 04/06/09 11:46							
Mercury	EPA 7471A	0.603	---	0.100	mg/kg wet	1x	--	0.668	90.2%	(80-120)	--	--	04/06/09 13:09		
LCS Dup (9D06017-BSD1)								Extracted: 04/06/09 11:46							
Mercury	EPA 7471A	0.610	---	0.0996	mg/kg wet	1x	--	0.664	92.0%	(80-120)	1.29%	(20)	04/06/09 13:11		
Matrix Spike (9D06017-MS1)			QC Source: BSD0054-01					Extracted: 04/06/09 11:46							
Mercury	EPA 7471A	0.663	---	0.101	mg/kg dry	1x	0.0126	0.677	96.1%	(80-125)	--	--	04/06/09 13:14		
Matrix Spike Dup (9D06017-MSD1)			QC Source: BSD0054-01					Extracted: 04/06/09 11:46							
Mercury	EPA 7471A	0.640	---	0.0946	mg/kg dry	1x	0.0126	0.631	99.4%	(80-125)	3.51%	(30)	04/06/09 13:16		

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/06/09 16:56
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D03025-BLK1)

Extracted: 04/03/09 17:40

Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	04/03/09 18:52	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/06/09 16:56
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D03025-BLK1)													Extracted: 04/03/09 17:40	
Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	04/03/09 18:52	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	C5
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	107%	Limits:	70-140%	"							04/03/09 18:52	
	Toluene-d8		100%		70-130%	"							"	
	4-BFB		100%		70-130%	"							"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D03025-BS1)													Extracted: 04/03/09 17:40	
Acetone	EPA 8260B	544	---	40.0	ug/kg wet	1x	--	500	109%	(60-140)	--	--	04/03/09 18:01	
Benzene	"	44.6	---	1.50	"	"	--	50.0	89.2%	(70-125)	--	--	"	
2-Butanone	"	556	---	30.0	"	"	--	500	111%	(60-140)	--	--	"	
Carbon disulfide	"	38.4	---	3.00	"	"	--	50.0	76.7%	(70-130)	--	--	"	
Chlorobenzene	"	45.6	---	2.00	"	"	--	"	91.2%	(70-125)	--	--	"	
1,1-Dichloroethane	"	45.8	---	2.00	"	"	--	"	91.5%	(75-125)	--	--	"	
1,1-Dichloroethene	"	43.4	---	3.00	"	"	--	"	86.8%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	45.4	---	3.00	"	"	--	"	90.8%	(75-125)	--	--	"	
Ethylbenzene	"	45.8	---	4.00	"	"	--	"	91.5%	(70-125)	--	--	"	
Hexachlorobutadiene	"	49.0	---	10.0	"	"	--	"	98.1%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	564	---	30.0	"	"	--	500	113%	(60-140)	--	--	"	
Naphthalene	"	47.0	---	10.0	"	"	--	50.0	94.1%	(70-130)	--	--	"	
Tetrachloroethene	"	46.6	---	2.00	"	"	--	"	93.1%	(70-125)	--	--	"	
Toluene	"	45.0	---	1.50	"	"	--	"	90.1%	"	--	--	"	
1,1,1-Trichloroethane	"	45.3	---	2.50	"	"	--	"	90.6%	(70-130)	--	--	"	
Trichloroethene	"	45.4	---	2.50	"	"	--	"	90.8%	(70-125)	--	--	"	
Total Xylenes	"	137	---	10.0	"	"	--	150	91.1%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 99.4% Limits: 70-140% "</i>													<i>04/03/09 18:01</i>	
<i>Toluene-d8 98.6% 70-130% "</i>													<i>"</i>	
<i>4-BFB 104% 70-130% "</i>													<i>"</i>	

LCS Dup (9D03025-BSD1)													Extracted: 04/03/09 17:40	
Acetone	EPA 8260B	614	---	40.0	ug/kg wet	1x	--	500	123%	(60-140)	12.0% (30)		04/03/09 18:26	
Benzene	"	49.3	---	1.50	"	"	--	50.0	98.6%	(70-125)	10.0%	"	"	
2-Butanone	"	570	---	30.0	"	"	--	500	114%	(60-140)	2.56%	"	"	
Carbon disulfide	"	42.8	---	3.00	"	"	--	50.0	85.5%	(70-130)	10.8%	"	"	
Chlorobenzene	"	48.8	---	2.00	"	"	--	"	97.6%	(70-125)	6.80%	"	"	
1,1-Dichloroethane	"	51.3	---	2.00	"	"	--	"	103%	(75-125)	11.4%	"	"	
1,1-Dichloroethene	"	48.3	---	3.00	"	"	--	"	96.5%	(70-130)	10.6%	"	"	
cis-1,2-Dichloroethene	"	51.4	---	3.00	"	"	--	"	103%	(75-125)	12.3%	"	"	
Ethylbenzene	"	48.9	---	4.00	"	"	--	"	97.8%	(70-125)	6.65%	"	"	
Hexachlorobutadiene	"	55.6	---	10.0	"	"	--	"	111%	(70-130)	12.5%	"	"	
4-Methyl-2-pentanone	"	561	---	30.0	"	"	--	500	112%	(60-140)	0.483%	"	"	
Naphthalene	"	54.4	---	10.0	"	"	--	50.0	109%	(70-130)	14.5%	"	"	
Tetrachloroethene	"	49.2	---	2.00	"	"	--	"	98.5%	(70-125)	5.57%	"	"	
Toluene	"	48.7	---	1.50	"	"	--	"	97.5%	"	7.91%	"	"	
1,1,1-Trichloroethane	"	50.4	---	2.50	"	"	--	"	101%	(70-130)	10.7%	"	"	
Trichloroethene	"	48.8	---	2.50	"	"	--	"	97.7%	(70-125)	7.28%	"	"	
Total Xylenes	"	145	---	10.0	"	"	--	150	96.9%	(70-130)	6.22%	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9D03025-BSD1)

Extracted: 04/03/09 17:40

Surrogate(s):	1,2-DCA-d4	Recovery:	103%	Limits:	70-140%	Ix							04/03/09 18:26	
	Toluene-d8		99.1%		70-130%	"							"	
	4-BFB		98.1%		70-130%	"							"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/06/09 16:56

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03034 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D03034-BLK1)													Extracted: 04/03/09 18:39	
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/06/09 10:45	
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b & k) fluoranthene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

Surrogate(s): *p-Terphenyl-d14* Recovery: 102% Limits: 46-125% " 04/06/09 10:45

LCS (9D03034-BS1)

Extracted: 04/03/09 18:39

Acenaphthene	8270C-SIM	0.703	---	0.0100	mg/kg wet	1x	--	0.667	105%	(65-130)	--	--	04/06/09 12:10	
Acenaphthylene	"	0.817	---	0.0100	"	"	--	"	123%	(67-142)	--	--	"	
Anthracene	"	0.913	---	0.0100	"	"	--	"	137%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.663	---	0.0100	"	"	--	"	99.4%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.701	---	0.0100	"	"	--	"	105%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.730	---	0.0100	"	"	--	"	109%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.676	---	0.0100	"	"	--	"	101%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.599	---	0.0100	"	"	--	"	89.9%	"	--	--	"	
Chrysene	"	0.770	---	0.0100	"	"	--	"	116%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.641	---	0.0100	"	"	--	"	96.1%	(56-149)	--	--	"	
Fluoranthene	"	0.706	---	0.0100	"	"	--	"	106%	(72-145)	--	--	"	
Fluorene	"	0.769	---	0.0100	"	"	--	"	115%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.617	---	0.0100	"	"	--	"	92.6%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.560	---	0.0100	"	"	--	"	84.0%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.525	---	0.0100	"	"	--	"	78.7%	(56-124)	--	--	"	
Naphthalene	"	0.556	---	0.0100	"	"	--	"	83.3%	(56-146)	--	--	"	
Phenanthrene	"	0.704	---	0.0100	"	"	--	"	106%	(64-139)	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03034 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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LCS (9D03034-BS1)

Extracted: 04/03/09 18:39

Pyrene	8270C-SIM	0.675	---	0.0100	mg/kg wet	1x	--	0.667	101%	(58-149)	--	--	04/06/09 12:10	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 76.2%</i>		<i>Limits: 46-125%</i>		<i>"</i>							<i>04/06/09 12:10</i>	

Matrix Spike (9D03034-MS1)

QC Source: BSD0056-01

Extracted: 04/03/09 18:39

Acenaphthene	8270C-SIM	1.39	---	1.40	mg/kg dry	100x	ND	0.933	149%	(64-140)	--	--	04/06/09 13:02	M1
Acenaphthylene	"	1.62	---	1.40	"	"	ND	"	174%	(66-150)	--	--	"	M1
Anthracene	"	1.75	---	1.40	"	"	ND	"	187%	(54-150)	--	--	"	M1
Benzo (a) anthracene	"	0.971	---	1.40	"	"	ND	"	104%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.625	---	1.40	"	"	ND	"	67.0%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.728	---	1.40	"	"	ND	"	78.0%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.989	---	1.40	"	"	ND	"	106%	"	--	--	"	
Benzo (ghi) perylene	"	0.887	---	1.40	"	"	ND	"	95.0%	"	--	--	"	
Chrysene	"	1.44	---	1.40	"	"	ND	"	154%	(65-150)	--	--	"	M1
Dibenz (a,h) anthracene	"	0.681	---	1.40	"	"	ND	"	73.0%	(55-150)	--	--	"	
Fluoranthene	"	1.05	---	1.40	"	"	ND	"	112%	(70-150)	--	--	"	
Fluorene	"	2.44	---	1.40	"	"	1.54	"	95.8%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.691	---	1.40	"	"	ND	"	74.0%	(50-150)	--	--	"	
1-Methylnaphthalene	"	23.6	---	1.40	"	"	26.3	"	-285%	(45-145)	--	--	"	MHA
2-Methylnaphthalene	"	28.2	---	1.40	"	"	30.0	"	-192%	(50-140)	--	--	"	MHA
Naphthalene	"	17.1	---	1.40	"	"	18.9	"	-197%	(47-147)	--	--	"	MHA
Phenanthrene	"	1.70	---	1.40	"	"	0.682	"	109%	(56-150)	--	--	"	
Pyrene	"	1.24	---	1.40	"	"	ND	"	133%	(57-150)	--	--	"	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 107%</i>		<i>Limits: 46-125%</i>		<i>"</i>							<i>04/06/09 13:02</i>	

Matrix Spike Dup (9D03034-MSD1)

QC Source: BSD0056-01

Extracted: 04/03/09 18:39

Acenaphthene	8270C-SIM	1.20	---	1.41	mg/kg dry	100x	ND	0.942	127%	(64-140)	15.0% (41)		04/06/09 13:57	
Acenaphthylene	"	1.43	---	1.41	"	"	ND	"	152%	(66-150)	12.5% "		"	M1
Anthracene	"	1.38	---	1.41	"	"	ND	"	146%	(54-150)	23.7% "		"	
Benzo (a) anthracene	"	0.754	---	1.41	"	"	ND	"	80.0%	(57-150)	25.1% "		"	
Benzo (a) pyrene	"	0.518	---	1.41	"	"	ND	"	55.0%	(55-150)	18.7% (35)		"	
Benzo (b) fluoranthene	"	0.679	---	1.41	"	"	ND	"	72.0%	(54-150)	7.01% (41)		"	
Benzo (k) fluoranthene	"	0.848	---	1.41	"	"	ND	"	90.0%	"	15.3% "		"	
Benzo (ghi) perylene	"	0.716	---	1.41	"	"	ND	"	76.0%	"	21.2% "		"	
Chrysene	"	1.28	---	1.41	"	"	ND	"	136%	(65-150)	11.4% (40)		"	
Dibenz (a,h) anthracene	"	0.575	---	1.41	"	"	ND	"	61.0%	(55-150)	16.9% (41)		"	
Fluoranthene	"	0.886	---	1.41	"	"	ND	"	94.0%	(70-150)	16.5% "		"	
Fluorene	"	2.02	---	1.41	"	"	1.54	"	50.5%	(74-150)	18.8% (44)		"	M2
Indeno (1,2,3-cd) pyrene	"	0.575	---	1.41	"	"	ND	"	61.0%	(50-150)	18.3% "		"	
1-Methylnaphthalene	"	17.9	---	1.41	"	"	26.3	"	-893%	(45-145)	27.7% (41)		"	MHA

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03034 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9D03034-MSD1)			QC Source: BSD0056-01				Extracted: 04/03/09 18:39							
2-Methylnaphthalene	8270C-SIM	21.1	---	1.41	mg/kg dry	100x	30.0	0.942	-939%	(50-140)	28.6%	(41)	04/06/09 13:57	MHA
Naphthalene	"	13.0	---	1.41	"	"	18.9	"	-635%	(47-147)	27.6%	"	"	MHA
Phenanthrene	"	1.44	---	1.41	"	"	0.682	"	80.7%	(56-150)	16.3%	"	"	
Pyrene	"	1.14	---	1.41	"	"	ND	"	121%	(57-150)	8.46%	"	"	
Surrogate(s): p-Terphenyl-d14		Recovery: 96.0%		Limits: 46-125%		"						04/06/09 13:57		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/06/09 16:56
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D03036 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D03036-BLK1)										Extracted: 04/03/09 18:41				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/06/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/06/09 16:56

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/06/09 16:56

Notes and Definitions

Report Specific Notes:

- C5 - Calibration Verification recovery was below the method control limit for this analyte. An additional check standard was analyzed at the reporting limit to ensure instrument sensitivity at the reporting limit. Samples ND.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2 - The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances? _____

Page Time & Initials: _____

Circle Y or **N**

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp of receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/3

Date: 4/3

Date: 4/3

Work Order No. BA00054

Time: 10:45

Time: 17:45

Time: 17:47

Client: _____

Initials: CP/FL

Initials: CG

Initials: CG

Project: _____

Container Type: (written by CP)

COC Seals:

Packing Material:

Cooler
 Box
 None/Other _____

Ship Container
 On Bottles
 None
Sign By _____
Date _____

Bubble Bags
 Styrofoam
 Foam Packs
 None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Placed in freezer #46:
 Y or N or NA
Initial/date/time _____

Fed Ex
 UPS
 DHL
 Senvoy
 GS
 Client
 TA Courier
 Mid Valley
 TDP
 Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 2.1 °C or NA comments _____

Trip Blank? Y or **N** or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact?	<input checked="" type="radio"/> Y or N	_____	Metals Preserved?	Y or N or NA	_____
Provided by TA?	<input checked="" type="radio"/> Y or N	_____	Client QAPP Preserved?	Y or N or NA	_____
Correct Type?	<input checked="" type="radio"/> Y or N	_____	Adequate Volume? (for tests requested)	<input checked="" type="radio"/> Y or N	_____
#Containers match COC?	<input checked="" type="radio"/> Y or N	_____	Water VOAs: Headspace?	Y or N or NA	_____
IDs/time/date match COC?	<input checked="" type="radio"/> Y or N	_____	Comments:	_____	_____
Hold Times in hold?	<input checked="" type="radio"/> Y or N	_____	_____	_____	_____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?
Has client been contacted regarding non-conformances?

Y or N
Y or N If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 07, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/06/09 15:40.
The following list is a summary of the Work Orders contained in this report, generated on 04/07/09
16:59.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0065	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/07/09 16:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-A11-14	BSD0065-01	Soil	04/06/09 09:00	04/06/09 15:40
AREA1-A10-14	BSD0065-02	Soil	04/06/09 09:05	04/06/09 15:40
AREA1-A12-14	BSD0065-03	Soil	04/06/09 10:10	04/06/09 15:40
AREA1-A-13-14	BSD0065-04	Soil	04/06/09 10:20	04/06/09 15:40
AREA1-A-14-14	BSD0065-05	Soil	04/06/09 10:30	04/06/09 15:40
AREA1-A-15-14	BSD0065-06	Soil	04/06/09 11:30	04/06/09 15:40
AREA1-B-15-14	BSD0065-07	Soil	04/06/09 11:40	04/06/09 15:40
AREA1-C-15-14	BSD0065-08	Soil	04/06/09 11:50	04/06/09 15:40
AREA1-C-14-14	BSD0065-09	Soil	04/06/09 12:00	04/06/09 15:40
AREA1-D-15-14	BSD0065-10	Soil	04/06/09 13:15	04/06/09 15:40
AREA1-E-15-14	BSD0065-11	Soil	04/06/09 13:30	04/06/09 15:40
AREA1-F-15-14	BSD0065-12	Soil	04/06/09 14:10	04/06/09 15:40
AREA1-G-15-14	BSD0065-13	Soil	04/06/09 14:20	04/06/09 15:40

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/07/09 16:59

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-01 (AREA1-A11-14)		Soil		Sampled: 04/06/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	3.88	mg/kg dry	1x	9D06046	04/06/09 16:20	04/06/09 18:04	M1
Surrogate(s): 4-BFB (FID)			125%		80 - 140 %	"			"	
BSD0065-02 (AREA1-A10-14)		Soil		Sampled: 04/06/09 09:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.50	mg/kg dry	1x	9D06046	04/06/09 16:20	04/06/09 19:09	
Surrogate(s): 4-BFB (FID)			122%		80 - 140 %	"			"	
BSD0065-03 (AREA1-A12-14)		Soil		Sampled: 04/06/09 10:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	7.89	mg/kg dry	1x	9D06046	04/06/09 16:20	04/06/09 20:13	
Surrogate(s): 4-BFB (FID)			151%		80 - 140 %	"			"	ZX
BSD0065-04 (AREA1-A-13-14)		Soil		Sampled: 04/06/09 10:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.32	mg/kg dry	1x	9D06046	04/06/09 16:20	04/06/09 20:45	
Surrogate(s): 4-BFB (FID)			138%		80 - 140 %	"			"	
BSD0065-05 (AREA1-A-14-14)		Soil		Sampled: 04/06/09 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.30	mg/kg dry	1x	9D06046	04/06/09 16:20	04/06/09 21:18	
Surrogate(s): 4-BFB (FID)			126%		80 - 140 %	"			"	
BSD0065-06 (AREA1-A-15-14)		Soil		Sampled: 04/06/09 11:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	6.47	mg/kg dry	1x	9D06046	04/06/09 16:20	04/06/09 23:26	
Surrogate(s): 4-BFB (FID)			123%		80 - 140 %	"			"	
BSD0065-07 (AREA1-B-15-14)		Soil		Sampled: 04/06/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	7.57	mg/kg dry	1x	9D06046	04/06/09 16:20	04/06/09 23:59	
Surrogate(s): 4-BFB (FID)			126%		80 - 140 %	"			"	
BSD0065-08 (AREA1-C-15-14)		Soil		Sampled: 04/06/09 11:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	6.07	mg/kg dry	1x	9D06046	04/06/09 16:20	04/07/09 00:31	
Surrogate(s): 4-BFB (FID)			126%		80 - 140 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/07/09 16:59

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0065-09 (AREA1-C-14-14)		Soil		Sampled: 04/06/09 12:00							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.49	mg/kg dry	1x	9D06046	04/06/09 16:20	04/07/09 01:03		
<i>Surrogate(s): 4-BFB (FID)</i>			124%		80 - 140 %	"				"	
BSD0065-10 (AREA1-D-15-14)		Soil		Sampled: 04/06/09 13:15							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	6.53	mg/kg dry	1x	9D06046	04/06/09 16:20	04/07/09 01:35		
<i>Surrogate(s): 4-BFB (FID)</i>			122%		80 - 140 %	"				"	
BSD0065-11 (AREA1-E-15-14)		Soil		Sampled: 04/06/09 13:30							P13
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.16	mg/kg dry	1x	9D06046	04/06/09 16:20	04/07/09 02:07		
<i>Surrogate(s): 4-BFB (FID)</i>			132%		80 - 140 %	"				"	
BSD0065-12 (AREA1-F-15-14)		Soil		Sampled: 04/06/09 14:10							
Gasoline Range Hydrocarbons	NWTPH-Gx	1290	----	138	mg/kg dry	25x	9D06046	04/06/09 16:20	04/07/09 09:59		
<i>Surrogate(s): 4-BFB (FID)</i>			128%		80 - 140 %	1x				"	
BSD0065-13 (AREA1-G-15-14)		Soil		Sampled: 04/06/09 14:20							
Gasoline Range Hydrocarbons	NWTPH-Gx	17.2	----	4.91	mg/kg dry	1x	9D06046	04/06/09 16:20	04/07/09 09:26		
<i>Surrogate(s): 4-BFB (FID)</i>			120%		80 - 140 %	"				"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-01 (AREA1-A11-14)		Soil			Sampled: 04/06/09 09:00					
Lube Oil	NWTPH-Dx	ND	----	29.2	mg/kg dry	1x	9D06049	04/06/09 17:06	04/06/09 21:35	
Kerosene	"	ND	----	11.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.6%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"
BSD0065-02 (AREA1-A10-14)		Soil			Sampled: 04/06/09 09:05					
Lube Oil	NWTPH-Dx	ND	----	29.3	mg/kg dry	1x	9D06049	04/06/09 17:06	04/06/09 21:58	
Kerosene	"	ND	----	11.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.0%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0065-03 (AREA1-A12-14)		Soil			Sampled: 04/06/09 10:10					
Lube Oil	NWTPH-Dx	ND	----	39.3	mg/kg dry	1x	9D06049	04/06/09 17:06	04/06/09 22:21	
Kerosene	"	ND	----	15.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	15.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.2%		54 - 148 %	"				"
<i>Octacosane</i>			101%		62 - 142 %	"				"
BSD0065-04 (AREA1-A-13-14)		Soil			Sampled: 04/06/09 10:20					
Lube Oil	NWTPH-Dx	ND	----	33.0	mg/kg dry	1x	9D06049	04/06/09 17:06	04/06/09 22:42	
Kerosene	"	ND	----	13.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.4%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSD0065-05 (AREA1-A-14-14)		Soil			Sampled: 04/06/09 10:30					
Lube Oil	NWTPH-Dx	ND	----	29.8	mg/kg dry	1x	9D06049	04/06/09 17:06	04/06/09 23:04	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.1%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-06 (AREA1-A-15-14)		Soil			Sampled: 04/06/09 11:30					
Lube Oil	NWTPH-Dx	ND	----	32.1	mg/kg dry	1x	9D06049	04/06/09 17:06	04/07/09 00:55	
Kerosene	"	ND	----	12.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			88.2%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSD0065-07 (AREA1-B-15-14)		Soil			Sampled: 04/06/09 11:40					
Lube Oil	NWTPH-Dx	ND	----	34.0	mg/kg dry	1x	9D06049	04/06/09 17:06	04/07/09 01:17	
Kerosene	"	ND	----	13.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			91.7%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSD0065-08 (AREA1-C-15-14)		Soil			Sampled: 04/06/09 11:50					
Lube Oil	NWTPH-Dx	ND	----	32.0	mg/kg dry	1x	9D06049	04/06/09 17:06	04/07/09 01:38	
Kerosene	"	ND	----	12.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	15.0	----	12.8	"	"	"	"	"	QP
<i>Surrogate(s): 2-FBP</i>			85.7%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0065-09 (AREA1-C-14-14)		Soil			Sampled: 04/06/09 12:00					
Lube Oil	NWTPH-Dx	ND	----	30.8	mg/kg dry	1x	9D06049	04/06/09 17:06	04/07/09 02:00	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			87.5%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0065-10 (AREA1-D-15-14)		Soil			Sampled: 04/06/09 13:15					
Lube Oil	NWTPH-Dx	ND	----	32.3	mg/kg dry	1x	9D06049	04/06/09 17:06	04/07/09 02:22	
Kerosene	"	ND	----	12.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.9%		54 - 148 %	"				"
<i>Octacosane</i>			100%		62 - 142 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-11 (AREA1-E-15-14)		Soil		Sampled: 04/06/09 13:30						
Lube Oil	NWTPH-Dx	ND	----	30.5	mg/kg dry	1x	9D06049	04/06/09 17:06	04/07/09 02:43	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.6%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSD0065-12 (AREA1-F-15-14)		Soil		Sampled: 04/06/09 14:10						
Lube Oil	NWTPH-Dx	ND	----	31.0	mg/kg dry	1x	9D06049	04/06/09 17:06	04/07/09 03:05	
Kerosene	"	37.7	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	15.1	----	12.4	"	"	"	"	"	Q5
<i>Surrogate(s): 2-FBP</i>			83.8%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0065-13 (AREA1-G-15-14)		Soil		Sampled: 04/06/09 14:20						
Lube Oil	NWTPH-Dx	ND	----	29.5	mg/kg dry	1x	9D06049	04/06/09 17:06	04/07/09 03:26	
Kerosene	"	ND	----	11.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.3%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-01 (AREA1-A11-14)		Soil						Sampled: 04/06/09 09:00		
Lead	EPA 6020	17.5	----	0.585	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 09:05	
BSD0065-02 (AREA1-A10-14)		Soil						Sampled: 04/06/09 09:05		
Lead	EPA 6020	38.7	----	0.605	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 09:12	
BSD0065-03 (AREA1-A12-14)		Soil						Sampled: 04/06/09 10:10		
Lead	EPA 6020	69.8	----	0.778	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 09:24	
BSD0065-04 (AREA1-A-13-14)		Soil						Sampled: 04/06/09 10:20		
Lead	EPA 6020	6.36	----	0.647	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 09:31	
BSD0065-05 (AREA1-A-14-14)		Soil						Sampled: 04/06/09 10:30		
Lead	EPA 6020	10.7	----	0.603	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 09:56	
BSD0065-06 (AREA1-A-15-14)		Soil						Sampled: 04/06/09 11:30		
Lead	EPA 6020	13.6	----	0.623	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 10:02	
BSD0065-07 (AREA1-B-15-14)		Soil						Sampled: 04/06/09 11:40		
Lead	EPA 6020	27.8	----	0.701	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 10:08	
BSD0065-08 (AREA1-C-15-14)		Soil						Sampled: 04/06/09 11:50		
Lead	EPA 6020	56.6	----	0.630	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 10:15	
BSD0065-09 (AREA1-C-14-14)		Soil						Sampled: 04/06/09 12:00		
Lead	EPA 6020	19.4	----	0.600	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 10:21	
BSD0065-10 (AREA1-D-15-14)		Soil						Sampled: 04/06/09 13:15		
Lead	EPA 6020	5.78	----	0.656	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 10:27	
BSD0065-11 (AREA1-E-15-14)		Soil						Sampled: 04/06/09 13:30		
Lead	EPA 6020	17.0	----	0.613	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 10:33	

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/07/09 16:59

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-12 (AREA1-F-15-14)		Soil		Sampled: 04/06/09 14:10						
Lead	EPA 6020	16.8	----	0.608	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 10:40	
BSD0065-13 (AREA1-G-15-14)		Soil		Sampled: 04/06/09 14:20						
Lead	EPA 6020	8.32	----	0.594	mg/kg dry	1x	9D07003	04/06/09 18:45	04/07/09 10:46	

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Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/07/09 16:59

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-01 (AREA1-A11-14)		Soil		Sampled: 04/06/09 09:00						P13
Benzene	EPA 8260B	ND	----	0.000839	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 18:01	
Ethylbenzene	"	0.00272	----	0.00224	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000559	"	"	"	"	"	
Naphthalene	"	ND	----	0.00559	"	"	"	"	"	
Toluene	"	ND	----	0.000839	"	"	"	"	"	
o-Xylene	"	ND	----	0.00280	"	"	"	"	"	
m,p-Xylene	"	0.00509	----	0.00280	"	"	"	"	"	
Total Xylenes	"	0.00662	----	0.00559	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				117%	70 - 140 %	"				"
<i>Toluene-d8</i>				97.2%	70 - 130 %	"				"
<i>4-BFB</i>				103%	70 - 130 %	"				"
BSD0065-02 (AREA1-A10-14)		Soil		Sampled: 04/06/09 09:05						P13
Benzene	EPA 8260B	ND	----	0.000691	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 18:27	
Ethylbenzene	"	ND	----	0.00184	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000461	"	"	"	"	"	
Naphthalene	"	ND	----	0.00461	"	"	"	"	"	
Toluene	"	ND	----	0.000691	"	"	"	"	"	
o-Xylene	"	ND	----	0.00230	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00230	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00461	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				119%	70 - 140 %	"				"
<i>Toluene-d8</i>				99.0%	70 - 130 %	"				"
<i>4-BFB</i>				103%	70 - 130 %	"				"
BSD0065-03 (AREA1-A12-14)		Soil		Sampled: 04/06/09 10:10						P13
Benzene	EPA 8260B	ND	----	0.000752	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 18:52	
Ethylbenzene	"	ND	----	0.00201	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000501	"	"	"	"	"	
Naphthalene	"	ND	----	0.00501	"	"	"	"	"	
Toluene	"	ND	----	0.000752	"	"	"	"	"	
o-Xylene	"	ND	----	0.00251	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00251	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00501	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				118%	70 - 140 %	"				"
<i>Toluene-d8</i>				106%	70 - 130 %	"				"
<i>4-BFB</i>				105%	70 - 130 %	"				"

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/07/09 16:59

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-04 (AREA1-A-13-14)		Soil		Sampled: 04/06/09 10:20						P13
Benzene	EPA 8260B	ND	----	0.000795	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 19:18	
Ethylbenzene	"	ND	----	0.00212	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000530	"	"	"	"	"	
Naphthalene	"	ND	----	0.00530	"	"	"	"	"	
Toluene	"	ND	----	0.000795	"	"	"	"	"	
o-Xylene	"	ND	----	0.00265	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00265	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00530	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 123% 70 - 140 % "
 Toluene-d8 98.4% 70 - 130 % "
 4-BFB 99.1% 70 - 130 % "

BSD0065-05 (AREA1-A-14-14)		Soil		Sampled: 04/06/09 10:30						P13
Benzene	EPA 8260B	ND	----	0.000715	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 19:43	
Ethylbenzene	"	ND	----	0.00191	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000477	"	"	"	"	"	
Naphthalene	"	ND	----	0.00477	"	"	"	"	"	
Toluene	"	ND	----	0.000715	"	"	"	"	"	
o-Xylene	"	ND	----	0.00238	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00238	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00477	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 111% 70 - 140 % "
 Toluene-d8 105% 70 - 130 % "
 4-BFB 112% 70 - 130 % "

BSD0065-06 (AREA1-A-15-14)		Soil		Sampled: 04/06/09 11:30						P13
Benzene	EPA 8260B	ND	----	0.000754	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 20:08	
Ethylbenzene	"	ND	----	0.00201	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000503	"	"	"	"	"	
Naphthalene	"	ND	----	0.00503	"	"	"	"	"	
Toluene	"	ND	----	0.000754	"	"	"	"	"	
o-Xylene	"	ND	----	0.00251	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00251	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00503	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 116% 70 - 140 % "
 Toluene-d8 102% 70 - 130 % "
 4-BFB 103% 70 - 130 % "

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/07/09 16:59

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0065-07 (AREA1-B-15-14)		Soil		Sampled: 04/06/09 11:40							P13
Benzene	EPA 8260B	ND	----	0.000918	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 20:34		
Ethylbenzene	"	ND	----	0.00245	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000612	"	"	"	"	"		
Naphthalene	"	ND	----	0.00612	"	"	"	"	"		
Toluene	"	ND	----	0.000918	"	"	"	"	"		
o-Xylene	"	ND	----	0.00306	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00306	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00612	"	"	"	"	"		

Surrogate(s): 1,2-DCA-d4 122% 70 - 140 % "
 Toluene-d8 99.4% 70 - 130 % "
 4-BFB 97.9% 70 - 130 % "

BSD0065-08 (AREA1-C-15-14)		Soil		Sampled: 04/06/09 11:50							P13
Benzene	EPA 8260B	ND	----	0.000870	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 20:59		
Ethylbenzene	"	ND	----	0.00232	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000580	"	"	"	"	"		
Naphthalene	"	ND	----	0.00580	"	"	"	"	"		
Toluene	"	ND	----	0.000870	"	"	"	"	"		
o-Xylene	"	ND	----	0.00290	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00290	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00580	"	"	"	"	"		

Surrogate(s): 1,2-DCA-d4 114% 70 - 140 % "
 Toluene-d8 101% 70 - 130 % "
 4-BFB 104% 70 - 130 % "

BSD0065-09 (AREA1-C-14-14)		Soil		Sampled: 04/06/09 12:00							P13
Benzene	EPA 8260B	ND	----	0.000834	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 21:25		
Ethylbenzene	"	ND	----	0.00222	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000556	"	"	"	"	"		
Naphthalene	"	ND	----	0.00556	"	"	"	"	"		
Toluene	"	ND	----	0.000834	"	"	"	"	"		
o-Xylene	"	ND	----	0.00278	"	"	"	"	"		
m,p-Xylene	"	0.00464	----	0.00278	"	"	"	"	"		
Total Xylenes	"	0.00682	----	0.00556	"	"	"	"	"		

Surrogate(s): 1,2-DCA-d4 119% 70 - 140 % "
 Toluene-d8 108% 70 - 130 % "
 4-BFB 112% 70 - 130 % "

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0065-10 (AREA1-D-15-14)		Soil		Sampled: 04/06/09 13:15							
Benzene	EPA 8260B	ND	----	0.000965	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 21:50	I2	
Ethylbenzene	"	ND	----	0.00257	"	"	"	"	"	I2	
Methyl tert-butyl ether	"	ND	----	0.000643	"	"	"	"	"	I2	
Naphthalene	"	ND	----	0.00643	"	"	"	"	"	I2	
Toluene	"	ND	----	0.000965	"	"	"	"	"	I2	
o-Xylene	"	ND	----	0.00322	"	"	"	"	"	I2	
m,p-Xylene	"	ND	----	0.00322	"	"	"	"	"	I2	
Total Xylenes	"	ND	----	0.00643	"	"	"	"	"	I2	
<i>Surrogate(s): 1,2-DCA-d4</i>			115%		70 - 140 %	"			"	I2	
<i>Toluene-d8</i>			101%		70 - 130 %	"			"	I2	
<i>4-BFB</i>			97.2%		70 - 130 %	"			"	I2	
BSD0065-11 (AREA1-E-15-14)		Soil		Sampled: 04/06/09 13:30							P13
Benzene	EPA 8260B	ND	----	0.000859	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 22:16		
Ethylbenzene	"	ND	----	0.00229	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000573	"	"	"	"	"		
Naphthalene	"	ND	----	0.00573	"	"	"	"	"		
Toluene	"	ND	----	0.000859	"	"	"	"	"		
o-Xylene	"	ND	----	0.00286	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00286	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00573	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			116%		70 - 140 %	"			"		
<i>Toluene-d8</i>			101%		70 - 130 %	"			"		
<i>4-BFB</i>			106%		70 - 130 %	"			"		
BSD0065-13 (AREA1-G-15-14)		Soil		Sampled: 04/06/09 14:20							P13
Benzene	EPA 8260B	0.0682	----	0.000615	mg/kg dry	1x	9D06022	04/06/09 17:00	04/06/09 23:07		
Methyl tert-butyl ether	"	ND	----	0.000410	"	"	"	"	"		
Naphthalene	"	0.0421	----	0.00410	"	"	"	"	"		
Toluene	"	0.0382	----	0.000615	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			115%		70 - 140 %	"			"		
<i>Toluene-d8</i>			101%		70 - 130 %	"			"		
<i>4-BFB</i>			105%		70 - 130 %	"			"		

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSD0065-12 (AREA1-F-15-14) Soil Sampled: 04/06/09 14:10

Methyl tert-butyl ether	EPA 8260B	ND	----	0.0553	mg/kg dry	1x	9D06036	04/06/09 15:00	04/06/09 23:29	
Naphthalene	"	9.06	----	2.21	"	"	"	"	"	
Toluene	"	0.617	----	0.111	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				110%		75 - 125 %	"			"
<i>Toluene-d8</i>				93.3%		75 - 125 %	"			"
<i>4-BFB</i>				92.0%		75 - 125 %	"			"

BSD0065-12RE1 (AREA1-F-15-14) Soil Sampled: 04/06/09 14:10

Benzene	EPA 8260B	1.23	----	0.0221	mg/kg dry	1x	9D07009	04/07/09 06:12	04/07/09 14:56	
<i>Surrogate(s): 1,2-DCA-d4</i>				93.4%		75 - 125 %	"			"
<i>Toluene-d8</i>				102%		75 - 125 %	"			"
<i>4-BFB</i>				98.8%		75 - 125 %	"			"

BSD0065-12RE2 (AREA1-F-15-14) Soil Sampled: 04/06/09 14:10

Ethylbenzene	EPA 8260B	32.2	----	1.11	mg/kg dry	10x	9D07009	04/07/09 06:12	04/07/09 14:29	
o-Xylene	"	20.0	----	1.11	"	"	"	"	"	
m,p-Xylene	"	89.9	----	2.21	"	"	"	"	"	
Xylenes (total)	"	110	----	3.32	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				91.4%		75 - 125 %	"			"
<i>Toluene-d8</i>				104%		75 - 125 %	"			"
<i>4-BFB</i>				100%		75 - 125 %	"			"

BSD0065-13RE1 (AREA1-G-15-14) Soil Sampled: 04/06/09 14:20

Ethylbenzene	EPA 8260B	0.508	----	0.0982	mg/kg dry	1x	9D07009	04/07/09 06:12	04/07/09 14:02	
o-Xylene	"	0.107	----	0.0982	"	"	"	"	"	
m,p-Xylene	"	0.537	----	0.196	"	"	"	"	"	
Xylenes (total)	"	0.644	----	0.295	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				92.6%		75 - 125 %	"			"
<i>Toluene-d8</i>				101%		75 - 125 %	"			"
<i>4-BFB</i>				103%		75 - 125 %	"			"

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-01 (AREA1-A11-14)		Soil								Sampled: 04/06/09 09:00
Dry Weight	BSOPSP003R0 8	84.7	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-02 (AREA1-A10-14)		Soil								Sampled: 04/06/09 09:05
Dry Weight	BSOPSP003R0 8	84.3	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-03 (AREA1-A12-14)		Soil								Sampled: 04/06/09 10:10
Dry Weight	BSOPSP003R0 8	63.0	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-04 (AREA1-A-13-14)		Soil								Sampled: 04/06/09 10:20
Dry Weight	BSOPSP003R0 8	75.8	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-05 (AREA1-A-14-14)		Soil								Sampled: 04/06/09 10:30
Dry Weight	BSOPSP003R0 8	82.9	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-06 (AREA1-A-15-14)		Soil								Sampled: 04/06/09 11:30
Dry Weight	BSOPSP003R0 8	77.2	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-07 (AREA1-B-15-14)		Soil								Sampled: 04/06/09 11:40
Dry Weight	BSOPSP003R0 8	72.8	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-08 (AREA1-C-15-14)		Soil								Sampled: 04/06/09 11:50
Dry Weight	BSOPSP003R0 8	77.8	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-09 (AREA1-C-14-14)		Soil								Sampled: 04/06/09 12:00
Dry Weight	BSOPSP003R0 8	80.1	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-10 (AREA1-D-15-14)		Soil								Sampled: 04/06/09 13:15
Dry Weight	BSOPSP003R0 8	77.8	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-11 (AREA1-E-15-14)		Soil								Sampled: 04/06/09 13:30

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/07/09 16:59

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0065-11 (AREA1-E-15-14)		Soil								Sampled: 04/06/09 13:30
Dry Weight	BSOPSP003R0 8	80.8	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-12 (AREA1-F-15-14)		Soil								Sampled: 04/06/09 14:10
Dry Weight	BSOPSP003R0 8	80.6	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	
BSD0065-13 (AREA1-G-15-14)		Soil								Sampled: 04/06/09 14:20
Dry Weight	BSOPSP003R0 8	83.3	----	1.00	%	1x	9D06050	04/06/09 17:07	04/07/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D06046 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D06046-BLK1)													Extracted: 04/06/09 16:20			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/06/09 16:59			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.4%</i>		<i>Limits: 80-140%</i>		<i>"</i>						<i>04/06/09 16:59</i>				
LCS (9D06046-BS1)													Extracted: 04/06/09 16:20			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.0	---	5.00	mg/kg wet	1x	--	50.0	98.1%	(80-120)	--	--	04/06/09 17:32			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 100%</i>		<i>Limits: 80-140%</i>		<i>"</i>						<i>04/06/09 17:32</i>				
Duplicate (9D06046-DUP1)													QC Source: BSD0065-01		Extracted: 04/06/09 16:20	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	3.88	mg/kg dry	1x	ND	--	--	--	NR (40)		04/06/09 18:36			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 123%</i>		<i>Limits: 80-140%</i>		<i>"</i>						<i>04/06/09 18:36</i>				
Duplicate (9D06046-DUP2)													QC Source: BSD0065-02		Extracted: 04/06/09 16:20	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	4.50	mg/kg dry	1x	ND	--	--	--	NR (40)		04/06/09 19:41			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 120%</i>		<i>Limits: 80-140%</i>		<i>"</i>						<i>04/06/09 19:41</i>				
Matrix Spike (9D06046-MS1)													QC Source: BSD0065-01		Extracted: 04/06/09 16:20	
Gasoline Range Hydrocarbons	NWTPH-Gx	39.6	---	3.88	mg/kg dry	1x	ND	29.7	133%	(75-130)	--	--	04/06/09 21:50	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 131%</i>		<i>Limits: 80-140%</i>		<i>"</i>						<i>04/06/09 21:50</i>				

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D06049 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D06049-BLK1)

Extracted: 04/06/09 17:06

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/06/09 19:44	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/06/09 19:44</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D06049-BS1)

Extracted: 04/06/09 17:06

Lube Oil	NWTPH-Dx	71.8	---	25.0	mg/kg wet	1x	--	66.7	108%	(63-125)	--	--	04/06/09 20:05	
Diesel Range Hydrocarbons	"	75.6	---	10.0	"	"	--	"	113%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/06/09 20:05</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D06049-DUP1)

QC Source: BSD0065-01

Extracted: 04/06/09 17:06

Lube Oil	NWTPH-Dx	ND	---	29.5	mg/kg dry	1x	ND	--	--	--	5.24% (50)		04/06/09 20:28	
Kerosene	"	ND	---	11.8	"	"	ND	--	--	--	18.8%	"	"	
Diesel Range Hydrocarbons	"	ND	---	11.8	"	"	ND	--	--	--	20.7%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/06/09 20:28</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D06049-DUP2)

QC Source: BSD0065-13

Extracted: 04/06/09 17:06

Lube Oil	NWTPH-Dx	ND	---	29.8	mg/kg dry	1x	ND	--	--	--	1.19% (50)		04/06/09 20:50	
Kerosene	"	ND	---	11.9	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	11.9	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/06/09 20:50</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D06049-MS1)

QC Source: BSD0065-01

Extracted: 04/06/09 17:06

Lube Oil	NWTPH-Dx	92.0	---	29.0	mg/kg dry	1x	6.78	77.4	110%	(26-150)	--	--	04/06/09 21:12	
Diesel Range Hydrocarbons	"	81.6	---	11.6	"	"	3.77	"	101%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/06/09 21:12</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D07003 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D07003-BLK1)								Extracted: 04/06/09 18:45						
Lead	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	04/07/09 08:34	
LCS (9D07003-BS1)								Extracted: 04/06/09 18:45						
Lead	EPA 6020	41.7	---	0.510	mg/kg wet	1x	--	40.8	102%	(80-120)	--	--	04/07/09 08:40	
Duplicate (9D07003-DUP1)				QC Source: BSD0065-01				Extracted: 04/06/09 18:45						
Lead	EPA 6020	19.9	---	0.573	mg/kg dry	1x	17.5	--	--	--	13.2% (20)	--	04/07/09 08:59	
Matrix Spike (9D07003-MS1)				QC Source: BSD0065-01				Extracted: 04/06/09 18:45						
Lead	EPA 6020	60.0	---	0.585	mg/kg dry	1x	17.5	46.8	90.9%	(75-125)	--	--	04/07/09 08:53	
Post Spike (9D07003-PS1)				QC Source: BSD0065-01				Extracted: 04/06/09 18:45						
Lead	EPA 6020	0.132	---		ug/ml	1x	0.0299	0.100	102%	(80-120)	--	--	04/07/09 09:18	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D06022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D06022-BLK1)													Extracted: 04/06/09 15:00	
Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/06/09 16:04	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	C5
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	C5
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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URS Corporation	Project Name: WMCP Phase 2	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759381	04/07/09 16:59
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D06022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D06022-BLK1)													Extracted: 04/06/09 15:00	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/06/09 16:04	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	C5
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	126%	Limits:	70-140%	"							04/06/09 16:04	
	Toluene-d8		95.0%		70-130%	"							"	
	4-BFB		100%		70-130%	"							"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D06022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D06022-BS1)													Extracted: 04/06/09 15:00	MNR1
Acetone	EPA 8260B	0.532	---	0.0400	mg/kg wet	1x	--	0.500	106%	(60-140)	--	--	04/06/09 15:14	
Benzene	"	0.0470	---	0.00150	"	"	--	0.0500	94.0%	(70-125)	--	--	"	
2-Butanone	"	0.541	---	0.0300	"	"	--	0.500	108%	(60-140)	--	--	"	
Carbon disulfide	"	0.0369	---	0.00300	"	"	--	0.0500	73.8%	(70-130)	--	--	"	
Chlorobenzene	"	0.0472	---	0.00200	"	"	--	"	94.4%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0472	---	0.00200	"	"	--	"	94.5%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0429	---	0.00300	"	"	--	"	85.8%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0475	---	0.00300	"	"	--	"	95.0%	(75-125)	--	--	"	
Ethylbenzene	"	0.0467	---	0.00400	"	"	--	"	93.5%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0507	---	0.0100	"	"	--	"	101%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.553	---	0.0300	"	"	--	0.500	111%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0469	---	0.00200	"	"	--	0.0500	93.8%	(70-125)	--	--	"	
Toluene	"	0.0475	---	0.00150	"	"	--	"	95.0%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0455	---	0.00250	"	"	--	"	90.9%	(70-130)	--	--	"	
Trichloroethene	"	0.0457	---	0.00250	"	"	--	"	91.4%	(70-125)	--	--	"	
Total Xylenes	"	0.138	---	0.0100	"	"	--	0.150	91.9%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 98.6%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>04/06/09 15:14</i>		
<i>Toluene-d8</i>		<i>99.9%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9D06022-BSD1)													Extracted: 04/06/09 15:00	
Acetone	EPA 8260B	0.527	---	0.0400	mg/kg wet	1x	--	0.500	105%	(60-140)	1.04% (30)		04/06/09 15:39	
Benzene	"	0.0488	---	0.00150	"	"	--	0.0500	97.5%	(70-125)	3.70%	"	"	
2-Butanone	"	0.517	---	0.0300	"	"	--	0.500	103%	(60-140)	4.58%	"	"	
Carbon disulfide	"	0.0386	---	0.00300	"	"	--	0.0500	77.3%	(70-130)	4.64%	"	"	
Chlorobenzene	"	0.0485	---	0.00200	"	"	--	"	97.0%	(70-125)	2.72%	"	"	
1,1-Dichloroethane	"	0.0494	---	0.00200	"	"	--	"	98.7%	(75-125)	4.39%	"	"	
1,1-Dichloroethene	"	0.0446	---	0.00300	"	"	--	"	89.3%	(70-130)	4.02%	"	"	
cis-1,2-Dichloroethene	"	0.0493	---	0.00300	"	"	--	"	98.6%	(75-125)	3.72%	"	"	
Ethylbenzene	"	0.0491	---	0.00400	"	"	--	"	98.1%	(70-125)	4.84%	"	"	
Hexachlorobutadiene	"	0.0518	---	0.0100	"	"	--	"	104%	(70-130)	2.22%	"	"	
4-Methyl-2-pentanone	"	0.505	---	0.0300	"	"	--	0.500	101%	(60-140)	9.01%	"	"	
Tetrachloroethene	"	0.0498	---	0.00200	"	"	--	0.0500	99.7%	(70-125)	6.02%	"	"	
Toluene	"	0.0493	---	0.00150	"	"	--	"	98.6%	"	3.64%	"	"	
1,1,1-Trichloroethane	"	0.0486	---	0.00250	"	"	--	"	97.3%	(70-130)	6.76%	"	"	
Trichloroethene	"	0.0493	---	0.00250	"	"	--	"	98.6%	(70-125)	7.52%	"	"	
Total Xylenes	"	0.147	---	0.0100	"	"	--	0.150	98.2%	(70-130)	6.65%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 97.0%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>04/06/09 15:39</i>		
<i>Toluene-d8</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/07/09 16:59
	Project Manager:	Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D06022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9D06022-BSD1)

Extracted: 04/06/09 15:00

Surrogate(s): 4-BFB

Recovery: 99.7%

Limits: 70-130% 1x

04/06/09 15:39

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D06036 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D06036-BLK1)													Extracted: 04/06/09 12:30			
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/06/09 17:03	C5		
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 97.4%</i>	<i>Limits: 75-125%</i>	"	<i>04/06/09 17:03</i>
<i>Toluene-d8</i>													<i>99.5%</i>	<i>75-125%</i>	"	<i>"</i>
<i>4-BFB</i>													<i>99.9%</i>	<i>75-125%</i>	"	<i>"</i>

LCS (9D06036-BS1)													Extracted: 04/06/09 12:30		MNR1	
Benzene	EPA 8260B	3.52	---	0.0200	mg/kg wet	1x	--	4.00	88.1%	(75-125)	--	--	04/06/09 15:07			
Ethylbenzene	"	3.83	---	0.100	"	"	--	"	95.7%	"	--	--	"			
Methyl tert-butyl ether	"	3.80	---	0.0500	"	"	--	"	95.1%	"	--	--	"			
Naphthalene	"	3.95	---	2.00	"	"	--	"	98.8%	(60-140)	--	--	"			
Toluene	"	3.68	---	0.100	"	"	--	"	92.0%	(75-125)	--	--	"			
o-Xylene	"	3.69	---	0.100	"	"	--	"	92.3%	"	--	--	"			
m,p-Xylene	"	7.41	---	0.200	"	"	--	8.00	92.6%	"	--	--	"			
Xylenes (total)	"	11.1	---	0.300	"	"	--	12.0	92.5%	"	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 99.0%</i>	<i>Limits: 75-125%</i>	"	<i>04/06/09 15:07</i>
<i>Toluene-d8</i>													<i>95.8%</i>	<i>75-125%</i>	"	<i>"</i>
<i>4-BFB</i>													<i>96.0%</i>	<i>75-125%</i>	"	<i>"</i>

LCS Dup (9D06036-BSD1)													Extracted: 04/06/09 12:30			
Benzene	EPA 8260B	3.61	---	0.0200	mg/kg wet	1x	--	4.00	90.3%	(75-125)	2.47% (20)		04/06/09 15:34			
Ethylbenzene	"	3.66	---	0.100	"	"	--	"	91.4%	"	4.62%	"	"			
Methyl tert-butyl ether	"	3.85	---	0.0500	"	"	--	"	96.4%	"	1.33%	"	"			
Naphthalene	"	4.03	---	2.00	"	"	--	"	101%	(60-140)	1.93%	"	"			
Toluene	"	3.57	---	0.100	"	"	--	"	89.2%	(75-125)	3.01%	"	"			
o-Xylene	"	3.52	---	0.100	"	"	--	"	87.9%	"	4.86%	"	"			
m,p-Xylene	"	7.03	---	0.200	"	"	--	8.00	87.8%	"	5.31%	"	"			
Xylenes (total)	"	10.5	---	0.300	"	"	--	12.0	87.9%	"	5.16%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 101%</i>	<i>Limits: 75-125%</i>	"	<i>04/06/09 15:34</i>
<i>Toluene-d8</i>													<i>95.4%</i>	<i>75-125%</i>	"	<i>"</i>
<i>4-BFB</i>													<i>98.5%</i>	<i>75-125%</i>	"	<i>"</i>

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/07/09 16:59
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D07009 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D07009-BLK1)													Extracted: 04/07/09 06:12	
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/07/09 13:35	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 90.2% Limits: 75-125% "</i>													<i>04/07/09 13:35</i>	
<i>Toluene-d8 102% 75-125% "</i>													<i>"</i>	
<i>4-BFB 106% 75-125% "</i>													<i>"</i>	

LCS (9D07009-BS1)													Extracted: 04/07/09 06:12		MNR1
Benzene	EPA 8260B	4.25	---	0.0200	mg/kg wet	1x	--	4.00	106%	(75-125)	--	--	04/07/09 12:06		
Ethylbenzene	"	4.05	---	0.100	"	"	--	"	101%	"	--	--	"		
Methyl tert-butyl ether	"	3.87	---	0.0500	"	"	--	"	96.7%	"	--	--	"		
Naphthalene	"	3.72	---	2.00	"	"	--	"	93.0%	(60-140)	--	--	"		
Toluene	"	4.20	---	0.100	"	"	--	"	105%	(75-125)	--	--	"		
o-Xylene	"	3.89	---	0.100	"	"	--	"	97.2%	"	--	--	"		
m,p-Xylene	"	7.77	---	0.200	"	"	--	8.00	97.2%	"	--	--	"		
Xylenes (total)	"	11.7	---	0.300	"	"	--	12.0	97.2%	"	--	--	"		
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.8% Limits: 75-125% "</i>													<i>04/07/09 12:06</i>		
<i>Toluene-d8 103% 75-125% "</i>													<i>"</i>		
<i>4-BFB 103% 75-125% "</i>													<i>"</i>		

LCS Dup (9D07009-BSD1)													Extracted: 04/07/09 06:12	
Benzene	EPA 8260B	4.10	---	0.0200	mg/kg wet	1x	--	4.00	102%	(75-125)	3.64% (20)		04/07/09 12:33	
Ethylbenzene	"	3.84	---	0.100	"	"	--	"	96.1%	"	5.12%	"	"	
Methyl tert-butyl ether	"	3.81	---	0.0500	"	"	--	"	95.2%	"	1.56%	"	"	
Naphthalene	"	3.66	---	2.00	"	"	--	"	91.6%	(60-140)	1.57%	"	"	
Toluene	"	3.89	---	0.100	"	"	--	"	97.2%	(75-125)	7.81%	"	"	
o-Xylene	"	3.63	---	0.100	"	"	--	"	90.7%	"	6.92%	"	"	
m,p-Xylene	"	7.22	---	0.200	"	"	--	8.00	90.3%	"	7.35%	"	"	
Xylenes (total)	"	10.9	---	0.300	"	"	--	12.0	90.4%	"	7.20%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.4% Limits: 75-125% "</i>													<i>04/07/09 12:33</i>	
<i>Toluene-d8 100% 75-125% "</i>													<i>"</i>	
<i>4-BFB 104% 75-125% "</i>													<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/07/09 16:59
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D06050 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D06050-BLK1)

Extracted: 04/06/09 17:07

Dry Weight	BSOPSP00 3R08	99.8	---	1.00	%	1x	--	--	--	--	--	--	04/07/09 00:00	
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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/07/09 16:59

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/07/09 16:59

Notes and Definitions

Report Specific Notes:

- C5 - Calibration Verification recovery was below the method control limit for this analyte. An additional check standard was analyzed at the reporting limit to ensure instrument sensitivity at the reporting limit. Samples ND.
- I2 - Internal Standard recovery was outside of method limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q5 - Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave. Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BS200665**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST		
REPORT TO: wmcp staff		ADDRESS:		in Business Days *		
PHONE:		P.O. NUMBER:		Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses		
PROJECT NAME: WMCP Phase II		PRESERVATIVE		10 STD. [7] [5] [4] [3] [2] [1] <1 5 STD. [4] [3] [2] [1] <1		
PROJECT NUMBER:		REQUESTED ANALYSES		OTHER Specify: 246		
SAMPLED BY: MATTHEW MCKEIBIN		CLIENT SAMPLE IDENTIFICATION		* Turnaround Requests less than standard may incur Rush Charges.		
SAMPLING DATE/TIME		MUTPH		MATRIX (W, S, O)		
		Gx		# OF CONT.		
		MUTPH		LOCATION/ COMMENTS		
		82600X		TA		
		Dx (Acid/SiO2) (lcu)		WO ID		
		LEAD				
1	AREA1-A11-14	4-6-09 / 0900	X	S	4	PID = 0.5 ppm
2	AREA1-A10-14	" / 0905	X			0.3 ppm
3	AREA1-A12-14	" / 1010	X			0.7 ppm
4	AREA1-A13-14	" / 1020	X			1.0 ppm
5	AREA1-A14-14	" / 1030	X			1.4 ppm
6	AREA1-A15-14	" / 1130	X			1.7 ppm
7	AREA1-B-15-14	" / 1140	X			0.6 ppm
8	AREA1-C-15-14	" / 1150	X			2.1 ppm
9	AREA1-C-14-14	" / 1200	X			2.1 ppm
10	AREA1-D15-14	" / 1315	X			0.7 ppm
RELEASED BY: Tom Blankinship		DATE: 4-6-09	DATE: 4-6-09	FIRM: TA-S	DATE: 4/6/09	TIME: 1500
PRINT NAME: MATTHEW MCKEIBIN		DATE: 1500	DATE: 1500	FIRM: TA-S	DATE: 1500	TIME: 1500
RECEIVED BY:		DATE:	DATE:	FIRM:	DATE:	TIME:
PRINT NAME:		DATE:	DATE:	FIRM:	DATE:	TIME:
RECEIVED BY:		DATE:	DATE:	FIRM:	DATE:	TIME:
PRINT NAME:		DATE:	DATE:	FIRM:	DATE:	TIME:
ADDITIONAL REMARKS:		TEMP: 5.8		PAGE 5 OF 6		
* w/ Acetone + MDE		@lab 1540		w/6		TAL-1000(0408)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: CENOCO PHILLIPS		INVOICE TO: CP		TURNAROUND REQUEST			
REPORT TO: WMC Staff		ADDRESS:		in Business Days *			
PHONE:		P.O. NUMBER:		<input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 <input type="checkbox"/> 25 <input type="checkbox"/> 26 <input type="checkbox"/> 27 <input type="checkbox"/> 28 <input type="checkbox"/> 29 <input type="checkbox"/> 30 <input type="checkbox"/> 31 <input type="checkbox"/> 32 <input type="checkbox"/> 33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 <input type="checkbox"/> 36 <input type="checkbox"/> 37 <input type="checkbox"/> 38 <input type="checkbox"/> 39 <input type="checkbox"/> 40 <input type="checkbox"/> 41 <input type="checkbox"/> 42 <input type="checkbox"/> 43 <input type="checkbox"/> 44 <input type="checkbox"/> 45 <input type="checkbox"/> 46 <input type="checkbox"/> 47 <input type="checkbox"/> 48 <input type="checkbox"/> 49 <input type="checkbox"/> 50 <input type="checkbox"/> 51 <input type="checkbox"/> 52 <input type="checkbox"/> 53 <input type="checkbox"/> 54 <input type="checkbox"/> 55 <input type="checkbox"/> 56 <input type="checkbox"/> 57 <input type="checkbox"/> 58 <input type="checkbox"/> 59 <input type="checkbox"/> 60 <input type="checkbox"/> 61 <input type="checkbox"/> 62 <input type="checkbox"/> 63 <input type="checkbox"/> 64 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 67 <input type="checkbox"/> 68 <input type="checkbox"/> 69 <input type="checkbox"/> 70 <input type="checkbox"/> 71 <input type="checkbox"/> 72 <input type="checkbox"/> 73 <input type="checkbox"/> 74 <input type="checkbox"/> 75 <input type="checkbox"/> 76 <input type="checkbox"/> 77 <input type="checkbox"/> 78 <input type="checkbox"/> 79 <input type="checkbox"/> 80 <input type="checkbox"/> 81 <input type="checkbox"/> 82 <input type="checkbox"/> 83 <input type="checkbox"/> 84 <input type="checkbox"/> 85 <input type="checkbox"/> 86 <input type="checkbox"/> 87 <input type="checkbox"/> 88 <input type="checkbox"/> 89 <input type="checkbox"/> 90 <input type="checkbox"/> 91 <input type="checkbox"/> 92 <input type="checkbox"/> 93 <input type="checkbox"/> 94 <input type="checkbox"/> 95 <input type="checkbox"/> 96 <input type="checkbox"/> 97 <input type="checkbox"/> 98 <input type="checkbox"/> 99 <input type="checkbox"/> 100			
PROJECT NAME: WMC F# II		PRESERVATIVE		Organic & Inorganic Analyses			
PROJECT NUMBER:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses			
SAMPLED BY: MATTHEW MCKINSON				OTHER Specify: RY			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/O ID
1 Areal - E15-14	4-6-09 / 1330	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	4	PID = 0.644m	
2 " F15-14	" / 1410	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	↓	↓	= 320 ppm	
3 " G15-14	" / 1420	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	↓	↓	6.1	
4							
5							
6							
7							
8							
9							
10							
RELEASED BY: MATTHEW MCKINSON		DATE: 4-6-09	TIME: 1500	RECEIVED BY: Tom Blankinship	DATE: 4/6/09	TIME: 1500	
PRINT NAME: MATTHEW MCKINSON		FIRM: WPS		PRINT NAME: Blankinship	FIRM: TA-S		
RECEIVED BY:		DATE:	TIME:	RECEIVED BY:	DATE:	TIME:	
PRINT NAME:				PRINT NAME:			
ADDITIONAL REMARKS:				TEMP: 5.8		PAGE 5.8 OF W/O	TAL-1000(0408)

TAT: _____ Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: B1545

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/6
Time: 1540
Initials: TB

Date: 4/6
Time: 1601
Initials: TB

Date: 4/6/09
Time: 1650
Initials: PTG/TB

Work Order No. BSC0065
Client: _____
Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler
 Box
 None/Other _____

Ship Container
 On Bottles
 None
Sign By _____
Date _____

Bubble Bags
 Styrofoam
 Foam Packs
 None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Placed in freezer #46:
Y or N or NA
Initial/date/time TB 4/6 1710

Fed Ex
 UPS
 DHL
 Servoy
 GS
 Client
 TA Courier
 Mid Valley
 TDP
 Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 5.8 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N _____
Provided by TA? Y or N _____
Correct Type? Y or N _____
#Containers match COC? Y or N _____
IDs/time/date match COC? Y or N _____
Hold Times in hold? Y or N _____

Metals Preserved? Y or N or NA _____
Client QAPP Preserved? Y or N or NA _____
Adequate Volume? Y or N _____
(for tests requested)
Water VOAs: Headspace? Y or N or NA _____
Comments: _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?
Has client been contacted regarding non-conformances?

Y or N
Y or N If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 08, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/07/09 16:00.
The following list is a summary of the Work Orders contained in this report, generated on 04/08/09
16:37.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0078	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-J15/14	BSD0078-01	Soil	04/07/09 10:30	04/07/09 16:00
Area1-J14/14	BSD0078-02	Soil	04/07/09 10:40	04/07/09 16:00
Area1-J12/14	BSD0078-03	Soil	04/07/09 11:00	04/07/09 16:00
Area1-J13/14	BSD0078-04	Soil	04/07/09 11:10	04/07/09 16:00
Area1-J11/14	BSD0078-05	Soil	04/07/09 11:30	04/07/09 16:00
Area2-C6-12	BSD0078-06	Soil	04/07/09 13:50	04/07/09 16:00
Area2-C9-12	BSD0078-07	Soil	04/07/09 14:00	04/07/09 16:00
Area2-B9-12	BSD0078-08	Soil	04/07/09 14:10	04/07/09 16:00
Area2-B8-11.5	BSD0078-09	Soil	04/07/09 14:20	04/07/09 16:00
Area2-B7-11.5	BSD0078-10	Soil	04/07/09 14:30	04/07/09 16:00
Area2-B6-12.5	BSD0078-11	Soil	04/07/09 14:40	04/07/09 16:00
Area1-J10-14	BSD0078-12	Soil	04/07/09 14:50	04/07/09 16:00

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-01 (Area1-J15/14)		Soil								Sampled: 04/07/09 10:30
Gasoline Range Hydrocarbons	NWTPH-Gx	57.1	----	33.3	mg/kg dry	1x	9D07040	04/07/09 16:35	04/07/09 18:59	M1
Surrogate(s): 4-BFB (FID)			159%		80 - 140 %	"			"	ZX
BSD0078-02 (Area1-J14/14)		Soil								Sampled: 04/07/09 10:40
Gasoline Range Hydrocarbons	NWTPH-Gx	113	----	14.6	mg/kg dry	1x	9D07040	04/07/09 16:35	04/07/09 20:04	
Surrogate(s): 4-BFB (FID)			160%		80 - 140 %	"			"	ZX
BSD0078-03 (Area1-J12/14)		Soil								Sampled: 04/07/09 11:00
Gasoline Range Hydrocarbons	NWTPH-Gx	266	----	82.5	mg/kg dry	1x	9D07040	04/07/09 16:35	04/07/09 21:08	A-01
Surrogate(s): 4-BFB (FID)			176%		80 - 140 %	"			"	ZX
BSD0078-04 (Area1-J13/14)		Soil								Sampled: 04/07/09 11:10
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.7	mg/kg dry	1x	9D07040	04/07/09 16:35	04/07/09 21:41	
Surrogate(s): 4-BFB (FID)			165%		80 - 140 %	"			"	ZX
BSD0078-04RE1 (Area1-J13/14)		Soil								Sampled: 04/07/09 11:10
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	38.3	mg/kg dry	1x	9D08016	04/08/09 08:08	04/08/09 11:27	M1
Surrogate(s): 4-BFB (FID)			208%		80 - 140 %	"			"	ZX
BSD0078-05 (Area1-J11/14)		Soil								Sampled: 04/07/09 11:30
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	59.4	mg/kg dry	1x	9D07040	04/07/09 16:35	04/07/09 22:13	
Surrogate(s): 4-BFB (FID)			152%		80 - 140 %	"			"	ZX
BSD0078-05RE1 (Area1-J11/14)		Soil								Sampled: 04/07/09 11:30
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	41.1	mg/kg dry	1x	9D08016	04/08/09 08:08	04/08/09 12:31	A-01b
Surrogate(s): 4-BFB (FID)			211%		80 - 140 %	"			"	ZX
BSD0078-06 (Area2-C6-12)		Soil								Sampled: 04/07/09 13:50
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	33.0	mg/kg dry	1x	9D07040	04/07/09 16:35	04/08/09 00:21	
Surrogate(s): 4-BFB (FID)			155%		80 - 140 %	"			"	ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0078-06RE1 (Area2-C6-12)		Soil		Sampled: 04/07/09 13:50							A-01b
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	24.2	mg/kg dry	1x	9D08016	04/08/09 08:08	04/08/09 13:03		
Surrogate(s): 4-BFB (FID)			200%		80 - 140 %	"			"	ZX	
BSD0078-07 (Area2-C9-12)		Soil		Sampled: 04/07/09 14:00							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	51.7	mg/kg dry	1x	9D07040	04/07/09 16:35	04/08/09 00:53		
Surrogate(s): 4-BFB (FID)			162%		80 - 140 %	"			"	ZX	
BSD0078-07RE1 (Area2-C9-12)		Soil		Sampled: 04/07/09 14:00							A-01b
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	38.7	mg/kg dry	1x	9D08016	04/08/09 08:08	04/08/09 13:36		
Surrogate(s): 4-BFB (FID)			214%		80 - 140 %	"			"	ZX	
BSD0078-08 (Area2-B9-12)		Soil		Sampled: 04/07/09 14:10							A-01
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	52.1	mg/kg dry	1x	9D07040	04/07/09 16:35	04/08/09 01:25		
Surrogate(s): 4-BFB (FID)			198%		80 - 140 %	"			"	ZX	
BSD0078-09 (Area2-B8-11.5)		Soil		Sampled: 04/07/09 14:20							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	56.1	mg/kg dry	1x	9D07040	04/07/09 16:35	04/08/09 01:57		
Surrogate(s): 4-BFB (FID)			144%		80 - 140 %	"			"	ZX	
BSD0078-09RE1 (Area2-B8-11.5)		Soil		Sampled: 04/07/09 14:20							A-01b
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	35.7	mg/kg dry	1x	9D08016	04/08/09 08:08	04/08/09 14:08		
Surrogate(s): 4-BFB (FID)			209%		80 - 140 %	"			"	ZX	
BSD0078-10 (Area2-B7-11.5)		Soil		Sampled: 04/07/09 14:30							A-01
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	44.9	mg/kg dry	1x	9D07040	04/07/09 16:35	04/08/09 02:29		
Surrogate(s): 4-BFB (FID)			189%		80 - 140 %	"			"	ZX	
BSD0078-11 (Area2-B6-12.5)		Soil		Sampled: 04/07/09 14:40							
Gasoline Range Hydrocarbons	NWTPH-Gx	69.0	----	61.1	mg/kg dry	1x	9D07040	04/07/09 16:35	04/08/09 03:01		
Surrogate(s): 4-BFB (FID)			150%		80 - 140 %	"			"	ZX	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/08/09 16:37
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-12 (Area1-J10-14)		Soil			Sampled: 04/07/09 14:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.72	mg/kg dry	1x	9D07040	04/07/09 16:35	04/08/09 03:33	
<i>Surrogate(s): 4-BFB (FID)</i>			<i>128%</i>		<i>80 - 140 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-01 (Area1-J15/14)		Soil			Sampled: 04/07/09 10:30					
Lube Oil	NWTPH-Dx	392	----	90.6	mg/kg dry	1x	9D07042	04/07/09 17:53	04/07/09 21:32	Q1
Kerosene	"	413	----	36.3	"	"	"	"	"	QP
Diesel Range Hydrocarbons	"	686	----	36.3	"	"	"	"	"	Q6, QP
Surrogate(s): 2-FBP			87.7%		54 - 148 %	"			"	
Octacosane			102%		62 - 142 %	"			"	
BSD0078-02 (Area1-J14/14)		Soil			Sampled: 04/07/09 10:40					
Lube Oil	NWTPH-Dx	220	----	53.1	mg/kg dry	1x	9D07042	04/07/09 17:53	04/07/09 21:55	Q1
Kerosene	"	65.9	----	21.2	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	137	----	21.2	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			93.4%		54 - 148 %	"			"	
Octacosane			103%		62 - 142 %	"			"	
BSD0078-03 (Area1-J12/14)		Soil			Sampled: 04/07/09 11:00					
Lube Oil	NWTPH-Dx	247	----	149	mg/kg dry	1x	9D07042	04/07/09 17:53	04/07/09 22:17	Q1
Kerosene	"	ND	----	59.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	112	----	59.8	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			90.4%		54 - 148 %	"			"	
Octacosane			102%		62 - 142 %	"			"	
BSD0078-04 (Area1-J13/14)		Soil			Sampled: 04/07/09 11:10					
Lube Oil	NWTPH-Dx	673	----	129	mg/kg dry	1x	9D07042	04/07/09 17:53	04/07/09 22:39	Q1
Kerosene	"	118	----	51.5	"	"	"	"	"	A-01a
Diesel Range Hydrocarbons	"	370	----	51.5	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			82.4%		54 - 148 %	"			"	
Octacosane			91.2%		62 - 142 %	"			"	
BSD0078-05 (Area1-J11/14)		Soil			Sampled: 04/07/09 11:30					
Lube Oil	NWTPH-Dx	ND	----	135	mg/kg dry	1x	9D07042	04/07/09 17:53	04/08/09 02:15	
Kerosene	"	ND	----	54.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	54.1	"	"	"	"	"	
Surrogate(s): 2-FBP			92.9%		54 - 148 %	"			"	
Octacosane			106%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-06 (Area2-C6-12)		Soil			Sampled: 04/07/09 13:50					
Lube Oil	NWTPH-Dx	175	----	87.7	mg/kg dry	1x	9D07042	04/07/09 17:53	04/08/09 02:38	Q1
Kerosene	"	ND	----	35.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	56.4	----	35.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			92.0%		54 - 148 %	"			"	
<i>Octacosane</i>			105%		62 - 142 %	"			"	
BSD0078-07 (Area2-C9-12)		Soil			Sampled: 04/07/09 14:00					
Lube Oil	NWTPH-Dx	513	----	130	mg/kg dry	1x	9D07042	04/07/09 17:53	04/08/09 02:59	Q1
Kerosene	"	86.9	----	52.0	"	"	"	"	"	A-01a
Diesel Range Hydrocarbons	"	297	----	52.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			88.1%		54 - 148 %	"			"	
<i>Octacosane</i>			102%		62 - 142 %	"			"	
BSD0078-08 (Area2-B9-12)		Soil			Sampled: 04/07/09 14:10					
Lube Oil	NWTPH-Dx	163	----	118	mg/kg dry	1x	9D07042	04/07/09 17:53	04/08/09 03:21	Q1
Kerosene	"	ND	----	47.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	75.7	----	47.3	"	"	"	"	"	QP, Q6
<i>Surrogate(s): 2-FBP</i>			93.5%		54 - 148 %	"			"	
<i>Octacosane</i>			105%		62 - 142 %	"			"	
BSD0078-09 (Area2-B8-11.5)		Soil			Sampled: 04/07/09 14:20					
Lube Oil	NWTPH-Dx	216	----	120	mg/kg dry	1x	9D07042	04/07/09 17:53	04/08/09 03:42	Q1
Kerosene	"	ND	----	47.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	92.1	----	47.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			95.1%		54 - 148 %	"			"	
<i>Octacosane</i>			108%		62 - 142 %	"			"	
BSD0078-10 (Area2-B7-11.5)		Soil			Sampled: 04/07/09 14:30					
Lube Oil	NWTPH-Dx	337	----	103	mg/kg dry	1x	9D07042	04/07/09 17:53	04/08/09 05:31	Q1
Kerosene	"	43.3	----	41.1	"	"	"	"	"	A-01a
Diesel Range Hydrocarbons	"	139	----	41.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			92.8%		54 - 148 %	"			"	
<i>Octacosane</i>			107%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-11 (Area2-B6-12.5)		Soil		Sampled: 04/07/09 14:40						
Lube Oil	NWTPH-Dx	249	----	132	mg/kg dry	1x	9D07042	04/07/09 17:53	04/08/09 05:53	Q1
Kerosene	"	ND	----	52.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	82.0	----	52.7	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			90.4%		54 - 148 %	"			"	
<i>Octacosane</i>			104%		62 - 142 %	"			"	
BSD0078-12 (Area1-J10-14)		Soil		Sampled: 04/07/09 14:50						
Lube Oil	NWTPH-Dx	ND	----	30.9	mg/kg dry	1x	9D07042	04/07/09 17:53	04/08/09 06:14	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.1%		54 - 148 %	"			"	
<i>Octacosane</i>			111%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-01	(Area1-J15/14)	Soil		Sampled: 04/07/09 10:30						
Lead	EPA 6010B	66.0	----	18.2	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 13:28	
BSD0078-02	(Area1-J14/14)	Soil		Sampled: 04/07/09 10:40						
Lead	EPA 6010B	218	----	9.11	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 13:31	
BSD0078-03	(Area1-J12/14)	Soil		Sampled: 04/07/09 11:00						
Lead	EPA 6010B	82.8	----	27.8	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 13:34	
BSD0078-04	(Area1-J13/14)	Soil		Sampled: 04/07/09 11:10						
Lead	EPA 6010B	149	----	25.1	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 13:38	
BSD0078-05	(Area1-J11/14)	Soil		Sampled: 04/07/09 11:30						
Lead	EPA 6010B	390	----	27.2	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 13:51	
BSD0078-06	(Area2-C6-12)	Soil		Sampled: 04/07/09 13:50						
Lead	EPA 6010B	31.6	----	15.1	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 13:55	
BSD0078-07	(Area2-C9-12)	Soil		Sampled: 04/07/09 14:00						
Lead	EPA 6010B	96.7	----	25.1	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 13:58	
BSD0078-08	(Area2-B9-12)	Soil		Sampled: 04/07/09 14:10						
Lead	EPA 6010B	39.4	----	21.7	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 14:01	
BSD0078-09	(Area2-B8-11.5)	Soil		Sampled: 04/07/09 14:20						
Lead	EPA 6010B	64.0	----	21.9	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 14:05	
BSD0078-10	(Area2-B7-11.5)	Soil		Sampled: 04/07/09 14:30						
Lead	EPA 6010B	20.3	----	20.1	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 14:08	
BSD0078-11	(Area2-B6-12.5)	Soil		Sampled: 04/07/09 14:40						
Lead	EPA 6010B	ND	----	24.4	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 14:12	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-12	(Area1-J10-14)									
			Soil				Sampled: 04/07/09 14:50			
Lead	EPA 6010B	44.5	----	6.01	mg/kg dry	5x	9D08015	04/08/09 11:05	04/08/09 14:15	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-01 (Area1-J15/14)		Soil		Sampled: 04/07/09 10:30						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00257	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 17:47	I2
Surrogate(s):	1,2-DCA-d4		120%		70 - 140 %	"			"	I2
	Toluene-d8		120%		70 - 130 %	"			"	I2
	4-BFB		123%		70 - 130 %	"			"	I2
BSD0078-02 (Area1-J14/14)		Soil		Sampled: 04/07/09 10:40						
Benzene	EPA 8260B	0.0169	----	0.00186	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 18:12	
Methyl tert-butyl ether	"	ND	----	0.00124	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		114%		70 - 140 %	"			"	
	Toluene-d8		125%		70 - 130 %	"			"	I2
	4-BFB		125%		70 - 130 %	"			"	I2
BSD0078-03 (Area1-J12/14)		Soil		Sampled: 04/07/09 11:00						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00259	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 18:38	I2
Surrogate(s):	1,2-DCA-d4		85.0%		70 - 140 %	"			"	I2
	Toluene-d8		154%		70 - 130 %	"			"	ZX, I2
	4-BFB		156%		70 - 130 %	"			"	ZX, I2
BSD0078-04 (Area1-J13/14)		Soil		Sampled: 04/07/09 11:10						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00302	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 19:03	
Surrogate(s):	1,2-DCA-d4		102%		70 - 140 %	"			"	I2
	Toluene-d8		130%		70 - 130 %	"			"	I2
	4-BFB		127%		70 - 130 %	"			"	I2
BSD0078-05 (Area1-J11/14)		Soil		Sampled: 04/07/09 11:30						
Benzene	EPA 8260B	ND	----	0.00444	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 19:29	
Methyl tert-butyl ether	"	ND	----	0.00296	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		96.7%		70 - 140 %	"			"	
	Toluene-d8		151%		70 - 130 %	"			"	ZX, I2
	4-BFB		149%		70 - 130 %	"			"	ZX, I2

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-06 (Area2-C6-12)		Soil		Sampled: 04/07/09 13:50						
Benzene	EPA 8260B	ND	----	0.00437	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 19:54	
Ethylbenzene	"	ND	----	0.0117	"	"	"	"	"	I2
Methyl tert-butyl ether	"	0.00854	----	0.00291	"	"	"	"	"	
Naphthalene	"	ND	----	0.0291	"	"	"	"	"	I2
Toluene	"	ND	----	0.00437	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				114%	70 - 140 %	"			"	I2
<i>Toluene-d8</i>				129%	70 - 130 %	"			"	I2
<i>4-BFB</i>				127%	70 - 130 %	"			"	
BSD0078-07 (Area2-C9-12)		Soil		Sampled: 04/07/09 14:00						
Naphthalene	EPA 8260B	ND	----	0.0317	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 20:20	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				114%	70 - 140 %	"			"	I2
<i>Toluene-d8</i>				126%	70 - 130 %	"			"	I2
<i>4-BFB</i>				122%	70 - 130 %	"			"	I2
BSD0078-09 (Area2-B8-11.5)		Soil		Sampled: 04/07/09 14:20						
Benzene	EPA 8260B	ND	----	0.00573	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 21:11	I2
Ethylbenzene	"	ND	----	0.0153	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.0382	"	"	"	"	"	I2
Toluene	"	ND	----	0.00573	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0191	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0191	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0382	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				116%	70 - 140 %	"			"	I2
<i>Toluene-d8</i>				125%	70 - 130 %	"			"	I2
<i>4-BFB</i>				120%	70 - 130 %	"			"	I2
BSD0078-10 (Area2-B7-11.5)		Soil		Sampled: 04/07/09 14:30						
Benzene	EPA 8260B	ND	----	0.00322	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 21:36	I2
Ethylbenzene	"	ND	----	0.00858	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.0215	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0107	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0107	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0215	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				104%	70 - 140 %	"			"	I2
<i>Toluene-d8</i>				148%	70 - 130 %	"			"	I2, ZX
<i>4-BFB</i>				137%	70 - 130 %	"			"	I2, ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-11 (Area2-B6-12.5)		Soil		Sampled: 04/07/09 14:40						
Benzene	EPA 8260B	ND	----	0.00655	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 22:02	
Ethylbenzene	"	ND	----	0.0175	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00437	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.0437	"	"	"	"	"	I2
Toluene	"	ND	----	0.00655	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				109%		70 - 140 %	"		"	
<i>Toluene-d8</i>				135%		70 - 130 %	"		"	I2, ZX
<i>4-BFB</i>				133%		70 - 130 %	"		"	I2, ZX

BSD0078-12 (Area1-J10-14)		Soil		Sampled: 04/07/09 14:50						
Benzene	EPA 8260B	ND	----	0.00104	mg/kg dry	1x	9D07029	04/07/09 16:19	04/07/09 22:28	I2
Methyl tert-butyl ether	"	ND	----	0.000696	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.00696	"	"	"	"	"	I2
Toluene	"	ND	----	0.00104	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				126%		70 - 140 %	"		"	I2
<i>Toluene-d8</i>				98.8%		70 - 130 %	"		"	I2
<i>4-BFB</i>				99.0%		70 - 130 %	"		"	I2

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-01 (Area1-J15/14)		Soil		Sampled: 04/07/09 10:30						
Benzene	EPA 8260B	ND	----	0.133	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 16:47	
Ethylbenzene	"	ND	----	0.666	"	"	"	"	"	
Naphthalene	"	ND	----	13.3	"	"	"	"	"	
Toluene	"	ND	----	0.666	"	"	"	"	"	
o-Xylene	"	ND	----	0.666	"	"	"	"	"	
m,p-Xylene	"	1.38	----	1.33	"	"	"	"	"	
Xylenes (total)	"	ND	----	2.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			83.7%		75 - 125 %	"				"
<i>Toluene-d8</i>			107%		75 - 125 %	"				"
<i>4-BFB</i>			106%		75 - 125 %	"				"
BSD0078-02 (Area1-J14/14)		Soil		Sampled: 04/07/09 10:40						
Ethylbenzene	EPA 8260B	0.977	----	0.292	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 17:14	
Naphthalene	"	ND	----	5.83	"	"	"	"	"	
Toluene	"	ND	----	0.292	"	"	"	"	"	
o-Xylene	"	1.10	----	0.292	"	"	"	"	"	
m,p-Xylene	"	3.15	----	0.583	"	"	"	"	"	
Xylenes (total)	"	4.25	----	0.875	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			86.5%		75 - 125 %	"				"
<i>Toluene-d8</i>			107%		75 - 125 %	"				"
<i>4-BFB</i>			107%		75 - 125 %	"				"
BSD0078-03 (Area1-J12/14)		Soil		Sampled: 04/07/09 11:00						
Benzene	EPA 8260B	ND	----	0.330	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 17:53	
Ethylbenzene	"	ND	----	1.65	"	"	"	"	"	
Naphthalene	"	ND	----	33.0	"	"	"	"	"	
Toluene	"	ND	----	1.65	"	"	"	"	"	
o-Xylene	"	ND	----	1.65	"	"	"	"	"	
m,p-Xylene	"	3.46	----	3.30	"	"	"	"	"	
Xylenes (total)	"	ND	----	4.95	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			86.2%		75 - 125 %	"				"
<i>Toluene-d8</i>			108%		75 - 125 %	"				"
<i>4-BFB</i>			107%		75 - 125 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSD0078-04 (Area1-J13/14)		Soil		Sampled: 04/07/09 11:10						
Benzene	EPA 8260B	ND	----	0.203	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 18:20	
Ethylbenzene	"	ND	----	1.01	"	"	"	"	"	
Naphthalene	"	ND	----	20.3	"	"	"	"	"	
Toluene	"	ND	----	1.01	"	"	"	"	"	
o-Xylene	"	ND	----	1.01	"	"	"	"	"	
m,p-Xylene	"	2.27	----	2.03	"	"	"	"	"	
Xylenes (total)	"	3.10	----	3.04	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			89.7%		75 - 125 %	"				"
<i>Toluene-d8</i>			107%		75 - 125 %	"				"
<i>4-BFB</i>			107%		75 - 125 %	"				"

BSD0078-05 (Area1-J11/14)		Soil		Sampled: 04/07/09 11:30						
Ethylbenzene	EPA 8260B	ND	----	1.19	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 18:46	
Naphthalene	"	ND	----	23.8	"	"	"	"	"	
Toluene	"	ND	----	1.19	"	"	"	"	"	
o-Xylene	"	ND	----	1.19	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.38	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.57	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			90.1%		75 - 125 %	"				"
<i>Toluene-d8</i>			107%		75 - 125 %	"				"
<i>4-BFB</i>			106%		75 - 125 %	"				"

BSD0078-06 (Area2-C6-12)		Soil		Sampled: 04/07/09 13:50						
o-Xylene	EPA 8260B	ND	----	0.660	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 19:13	
m,p-Xylene	"	ND	----	1.32	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.98	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			89.4%		75 - 125 %	"				"
<i>Toluene-d8</i>			105%		75 - 125 %	"				"
<i>4-BFB</i>			107%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-07 (Area2-C9-12)		Soil		Sampled: 04/07/09 14:00						
Benzene	EPA 8260B	ND	----	0.207	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 19:40	
Ethylbenzene	"	ND	----	1.03	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.517	"	"	"	"	"	
Toluene	"	ND	----	1.03	"	"	"	"	"	
o-Xylene	"	ND	----	1.03	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.07	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.10	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>90.6%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>106%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>103%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

BSD0078-08 (Area2-B9-12)		Soil		Sampled: 04/07/09 14:10						A-01
Benzene	EPA 8260B	ND	----	0.208	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 20:07	
Ethylbenzene	"	ND	----	1.04	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.521	"	"	"	"	"	
Naphthalene	"	ND	----	20.8	"	"	"	"	"	
Toluene	"	ND	----	1.04	"	"	"	"	"	
o-Xylene	"	ND	----	1.04	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.08	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.12	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>92.4%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>103%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>106%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

BSD0078-09 (Area2-B8-11.5)		Soil		Sampled: 04/07/09 14:20						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.550	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 20:34	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>91.0%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>103%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>104%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0078-10 (Area2-B7-11.5)		Soil		Sampled: 04/07/09 14:30							A-01
Methyl tert-butyl ether	EPA 8260B	ND	----	0.449	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 21:00		
Toluene	"	ND	----	0.898	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			96.6%		75 - 125 %	"				"	
<i>Toluene-d8</i>			103%		75 - 125 %	"				"	
<i>4-BFB</i>			102%		75 - 125 %	"				"	
BSD0078-11 (Area2-B6-12.5)		Soil		Sampled: 04/07/09 14:40							
o-Xylene	EPA 8260B	ND	----	1.22	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 21:27		
m,p-Xylene	"	ND	----	2.44	"	"	"	"	"		
Xylenes (total)	"	ND	----	3.66	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			95.8%		75 - 125 %	"				"	
<i>Toluene-d8</i>			102%		75 - 125 %	"				"	
<i>4-BFB</i>			101%		75 - 125 %	"				"	
BSD0078-12 (Area1-J10-14)		Soil		Sampled: 04/07/09 14:50							
Ethylbenzene	EPA 8260B	ND	----	0.0944	mg/kg dry	1x	9D07009	04/07/09 15:00	04/07/09 21:54		
o-Xylene	"	ND	----	0.0944	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.189	"	"	"	"	"		
Xylenes (total)	"	ND	----	0.283	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			97.4%		75 - 125 %	"				"	
<i>Toluene-d8</i>			99.0%		75 - 125 %	"				"	
<i>4-BFB</i>			102%		75 - 125 %	"				"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-01 (Area1-J15/14)		Soil								Sampled: 04/07/09 10:30
Dry Weight	BSOPSP003R0 8	27.2	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-02 (Area1-J14/14)		Soil								Sampled: 04/07/09 10:40
Dry Weight	BSOPSP003R0 8	46.9	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-03 (Area1-J12/14)		Soil								Sampled: 04/07/09 11:00
Dry Weight	BSOPSP003R0 8	17.0	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-04 (Area1-J13/14)		Soil								Sampled: 04/07/09 11:10
Dry Weight	BSOPSP003R0 8	19.3	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-05 (Area1-J11/14)		Soil								Sampled: 04/07/09 11:30
Dry Weight	BSOPSP003R0 8	18.2	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-06 (Area2-C6-12)		Soil								Sampled: 04/07/09 13:50
Dry Weight	BSOPSP003R0 8	28.2	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-07 (Area2-C9-12)		Soil								Sampled: 04/07/09 14:00
Dry Weight	BSOPSP003R0 8	19.0	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-08 (Area2-B9-12)		Soil								Sampled: 04/07/09 14:10
Dry Weight	BSOPSP003R0 8	20.9	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-09 (Area2-B8-11.5)		Soil								Sampled: 04/07/09 14:20
Dry Weight	BSOPSP003R0 8	20.6	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-10 (Area2-B7-11.5)		Soil								Sampled: 04/07/09 14:30
Dry Weight	BSOPSP003R0 8	24.2	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-11 (Area2-B6-12.5)		Soil								Sampled: 04/07/09 14:40

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0078-11 (Area2-B6-12.5)		Soil		Sampled: 04/07/09 14:40						
Dry Weight	BSOPSPL003R0 8	18.8	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	
BSD0078-12 (Area1-J10-14)		Soil		Sampled: 04/07/09 14:50						
Dry Weight	BSOPSPL003R0 8	79.9	----	1.00	%	1x	9D07038	04/07/09 16:09	04/08/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9D07040 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D07040-BLK1)													Extracted: 04/07/09 16:35			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/07/09 17:55			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.0%</i>		<i>Limits: 80-140%</i>		<i>"</i>							04/07/09 17:55			
LCS (9D07040-BS1)													Extracted: 04/07/09 16:35			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.5	---	5.00	mg/kg wet	1x	--	50.0	99.0%	(80-120)	--	--	04/07/09 18:27			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 80-140%</i>		<i>"</i>							04/07/09 18:27			
Duplicate (9D07040-DUP1)													QC Source: BSD0078-01		Extracted: 04/07/09 16:35	
Gasoline Range Hydrocarbons	NWTPH-Gx	53.6	---	33.3	mg/kg dry	1x	57.1	--	--	--	6.23% (40)		04/07/09 19:31			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 161%</i>		<i>Limits: 80-140%</i>		<i>"</i>							04/07/09 19:31	ZX		
Duplicate (9D07040-DUP2)													QC Source: BSD0078-02		Extracted: 04/07/09 16:35	
Gasoline Range Hydrocarbons	NWTPH-Gx	119	---	14.6	mg/kg dry	1x	113	--	--	--	5.34% (40)		04/07/09 20:36			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 163%</i>		<i>Limits: 80-140%</i>		<i>"</i>							04/07/09 20:36	ZX		
Matrix Spike (9D07040-MS1)													QC Source: BSD0078-01		Extracted: 04/07/09 16:35	
Gasoline Range Hydrocarbons	NWTPH-Gx	386	---	33.3	mg/kg dry	1x	57.1	199	165%	(75-130)	--	--	04/07/09 22:45	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 170%</i>		<i>Limits: 80-140%</i>		<i>"</i>							04/07/09 22:45	ZX		

QC Batch: 9D08016 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D08016-BLK1)													Extracted: 04/08/09 08:08			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/08/09 10:14			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.6%</i>		<i>Limits: 80-140%</i>		<i>"</i>							04/08/09 10:14			
LCS (9D08016-BS1)													Extracted: 04/08/09 08:08			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.8	---	5.00	mg/kg wet	1x	--	50.0	99.5%	(80-120)	--	--	04/08/09 10:46			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>		<i>Limits: 80-140%</i>		<i>"</i>							04/08/09 10:46			
Duplicate (9D08016-DUP1)													QC Source: BSD0078-04RE1		Extracted: 04/08/09 08:08	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	38.3	mg/kg dry	1x	ND	--	--	--	18.1% (40)		04/08/09 11:59			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 209%</i>		<i>Limits: 80-140%</i>		<i>"</i>							04/08/09 11:59	ZX		
Matrix Spike (9D08016-MS1)													QC Source: BSD0078-04RE1		Extracted: 04/08/09 08:08	
Gasoline Range Hydrocarbons	NWTPH-Gx	397	---	38.3	mg/kg dry	1x	25.3	174	213%	(75-130)	--	--	04/08/09 14:40	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 229%</i>		<i>Limits: 80-140%</i>		<i>"</i>							04/08/09 14:40	ZX		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D07042 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D07042-BLK1) Extracted: 04/07/09 17:53

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/08/09 00:27	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/08/09 00:27</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D07042-BS1) Extracted: 04/07/09 17:53

Lube Oil	NWTPH-Dx	80.6	---	25.0	mg/kg wet	1x	--	66.7	121%	(63-125)	--	--	04/08/09 00:48	
Diesel Range Hydrocarbons	"	76.2	---	10.0	"	"	--	"	114%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/08/09 00:48</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D07042-DUP1) QC Source: BSD0078-12 Extracted: 04/07/09 17:53

Lube Oil	NWTPH-Dx	ND	---	31.0	mg/kg dry	1x	ND	--	--	--	11.8% (50)		04/08/09 01:11	
Kerosene	"	ND	---	12.4	"	"	ND	--	--	--	"		"	R4
Diesel Range Hydrocarbons	"	ND	---	12.4	"	"	ND	--	--	--	NR		"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/08/09 01:11</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D07042-DUP2) QC Source: BSD0078-09 Extracted: 04/07/09 17:53

Lube Oil	NWTPH-Dx	276	---	122	mg/kg dry	1x	216	--	--	--	24.2% (50)		04/08/09 01:33	
Kerosene	"	ND	---	48.7	"	"	ND	--	--	--	26.4%		"	
Diesel Range Hydrocarbons	"	112	---	48.7	"	"	92.1	--	--	--	19.4%		"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/08/09 01:33</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D07042-MS1) QC Source: BSD0078-12 Extracted: 04/07/09 17:53

Lube Oil	NWTPH-Dx	94.5	---	31.3	mg/kg dry	1x	7.03	83.4	105%	(26-150)	--	--	04/08/09 01:54	
Diesel Range Hydrocarbons	"	87.0	---	12.5	"	"	2.54	"	101%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/08/09 01:54</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D08015 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D08015-BLK1)								Extracted: 04/08/09 11:05						
Lead	EPA 6010B	ND	---	1.03	mg/kg wet	1x	--	--	--	--	--	--	04/08/09 13:11	
LCS (9D08015-BS1)								Extracted: 04/08/09 11:05						
Lead	EPA 6010B	264	---	1.01	mg/kg wet	1x	--	253	104%	(80-120)	--	--	04/08/09 13:15	
Duplicate (9D08015-DUP1)				QC Source: BSD0078-01				Extracted: 04/08/09 11:05						
Lead	EPA 6010B	63.1	---	18.0	mg/kg dry	5x	66.0	--	--	--	4.49% (40)	--	04/08/09 13:21	
Matrix Spike (9D08015-MS1)				QC Source: BSD0078-01				Extracted: 04/08/09 11:05						
Lead	EPA 6010B	920	---	18.2	mg/kg dry	5x	66.0	909	93.9%	(51-144)	--	--	04/08/09 13:18	
Post Spike (9D08015-PS1)				QC Source: BSD0078-01				Extracted: 04/08/09 11:05						
Lead	EPA 6010B	5.46	---		ug/ml	5x	0.359	5.00	102%	(75-125)	--	--	04/08/09 13:24	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D07029 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D07029-BLK1)

Extracted: 04/07/09 12:19

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/07/09 16:41	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	C4
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	C4
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/08/09 16:37

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D07029 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D07029-BLK1)													Extracted: 04/07/09 12:19	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/07/09 16:41	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	C4
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	C4
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i> 1,2-DCA-d4	<i>Recovery:</i> 120%	<i>Limits:</i> 70-140%	"	04/07/09 16:41
Toluene-d8	96.2%	70-130%	"	"
4-BFB	98.6%	70-130%	"	"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/08/09 16:37

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D07029 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
LCS (9D07029-BS1)													Extracted: 04/07/09 12:19			
Acetone	EPA 8260B	0.546	---	0.0400	mg/kg wet	1x	--	0.500	109%	(60-140)	--	--	04/07/09 15:50			
Benzene	"	0.0488	---	0.00150	"	"	--	0.0500	97.6%	(70-125)	--	--	"			
2-Butanone	"	0.511	---	0.0300	"	"	--	0.500	102%	(60-140)	--	--	"			
Carbon disulfide	"	0.0416	---	0.00300	"	"	--	0.0500	83.2%	(70-130)	--	--	"			
Chlorobenzene	"	0.0475	---	0.00200	"	"	--	"	94.9%	(70-125)	--	--	"			
1,1-Dichloroethane	"	0.0510	---	0.00200	"	"	--	"	102%	(75-125)	--	--	"			
1,1-Dichloroethene	"	0.0474	---	0.00300	"	"	--	"	94.9%	(70-130)	--	--	"			
cis-1,2-Dichloroethene	"	0.0498	---	0.00300	"	"	--	"	99.6%	(75-125)	--	--	"			
Ethylbenzene	"	0.0493	---	0.00400	"	"	--	"	98.6%	(70-125)	--	--	"			
Hexachlorobutadiene	"	0.0546	---	0.0100	"	"	--	"	109%	(70-130)	--	--	"			
4-Methyl-2-pentanone	"	0.527	---	0.0300	"	"	--	0.500	105%	(60-140)	--	--	"			
Tetrachloroethene	"	0.0487	---	0.00200	"	"	--	0.0500	97.4%	(70-125)	--	--	"			
Toluene	"	0.0477	---	0.00150	"	"	--	"	95.4%	"	--	--	"			
1,1,1-Trichloroethane	"	0.0506	---	0.00250	"	"	--	"	101%	(70-130)	--	--	"			
Trichloroethene	"	0.0473	---	0.00250	"	"	--	"	94.7%	(70-125)	--	--	"			
Total Xylenes	"	0.145	---	0.0100	"	"	--	0.150	96.7%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 98.3%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>04/07/09 15:50</i>
<i>Toluene-d8</i>													<i>98.2%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>100%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9D07029-BSD1)

Extracted: 04/07/09 12:19

Acetone	EPA 8260B	0.631	---	0.0400	mg/kg wet	1x	--	0.500	126%	(60-140)	14.5% (30)		04/07/09 16:16			
Benzene	"	0.0484	---	0.00150	"	"	--	0.0500	96.9%	(70-125)	0.782%	"	"			
2-Butanone	"	0.597	---	0.0300	"	"	--	0.500	119%	(60-140)	15.6%	"	"			
Carbon disulfide	"	0.0389	---	0.00300	"	"	--	0.0500	77.7%	(70-130)	6.79%	"	"			
Chlorobenzene	"	0.0489	---	0.00200	"	"	--	"	97.8%	(70-125)	2.97%	"	"			
1,1-Dichloroethane	"	0.0504	---	0.00200	"	"	--	"	101%	(75-125)	1.24%	"	"			
1,1-Dichloroethene	"	0.0459	---	0.00300	"	"	--	"	91.7%	(70-130)	3.37%	"	"			
cis-1,2-Dichloroethene	"	0.0514	---	0.00300	"	"	--	"	103%	(75-125)	3.12%	"	"			
Ethylbenzene	"	0.0505	---	0.00400	"	"	--	"	101%	(70-125)	2.41%	"	"			
Hexachlorobutadiene	"	0.0560	---	0.0100	"	"	--	"	112%	(70-130)	2.42%	"	"			
4-Methyl-2-pentanone	"	0.582	---	0.0300	"	"	--	0.500	116%	(60-140)	9.84%	"	"			
Tetrachloroethene	"	0.0499	---	0.00200	"	"	--	0.0500	99.8%	(70-125)	2.47%	"	"			
Toluene	"	0.0491	---	0.00150	"	"	--	"	98.2%	"	2.85%	"	"			
1,1,1-Trichloroethane	"	0.0496	---	0.00250	"	"	--	"	99.2%	(70-130)	2.11%	"	"			
Trichloroethene	"	0.0475	---	0.00250	"	"	--	"	95.0%	(70-125)	0.380%	"	"			
Total Xylenes	"	0.150	---	0.0100	"	"	--	0.150	100%	(70-130)	3.37%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 100%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>04/07/09 16:16</i>
<i>Toluene-d8</i>													<i>101%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/08/09 16:37
	Project Manager:	Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D07029 **Soil Preparation Method: EPA 5035**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9D07029-BSD1)

Extracted: 04/07/09 12:19

Surrogate(s): 4-BFB

Recovery: 98.6%

Limits: 70-130% 1x

04/07/09 16:16

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D07009 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D07009-BLK1)													Extracted: 04/07/09 06:12			
Benzene	EPA 8260B	ND	---	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/07/09 13:35			
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.0500	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"			
Xylenes (total)	"	ND	---	0.300	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 90.2%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>04/07/09 13:35</i>
<i>Toluene-d8</i>													<i>102%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>106%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS (9D07009-BS1)													Extracted: 04/07/09 06:12		MNR1	
Benzene	EPA 8260B	4.25	---	0.0200	mg/kg wet	1x	--	4.00	106%	(75-125)	--	--	04/07/09 12:06			
Ethylbenzene	"	4.05	---	0.100	"	"	--	"	101%	"	--	--	"			
Methyl tert-butyl ether	"	3.87	---	0.0500	"	"	--	"	96.7%	"	--	--	"			
Naphthalene	"	3.72	---	2.00	"	"	--	"	93.0%	(60-140)	--	--	"			
Toluene	"	4.20	---	0.100	"	"	--	"	105%	(75-125)	--	--	"			
o-Xylene	"	3.89	---	0.100	"	"	--	"	97.2%	"	--	--	"			
m,p-Xylene	"	7.77	---	0.200	"	"	--	8.00	97.2%	"	--	--	"			
Xylenes (total)	"	11.7	---	0.300	"	"	--	12.0	97.2%	"	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 93.8%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>04/07/09 12:06</i>
<i>Toluene-d8</i>													<i>103%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>103%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS Dup (9D07009-BSD1)													Extracted: 04/07/09 06:12			
Benzene	EPA 8260B	4.10	---	0.0200	mg/kg wet	1x	--	4.00	102%	(75-125)	3.64% (20)		04/07/09 12:33			
Ethylbenzene	"	3.84	---	0.100	"	"	--	"	96.1%	"	5.12%	"	"			
Methyl tert-butyl ether	"	3.81	---	0.0500	"	"	--	"	95.2%	"	1.56%	"	"			
Naphthalene	"	3.66	---	2.00	"	"	--	"	91.6%	(60-140)	1.57%	"	"			
Toluene	"	3.89	---	0.100	"	"	--	"	97.2%	(75-125)	7.81%	"	"			
o-Xylene	"	3.63	---	0.100	"	"	--	"	90.7%	"	6.92%	"	"			
m,p-Xylene	"	7.22	---	0.200	"	"	--	8.00	90.3%	"	7.35%	"	"			
Xylenes (total)	"	10.9	---	0.300	"	"	--	12.0	90.4%	"	7.20%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 93.4%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>04/07/09 12:33</i>
<i>Toluene-d8</i>													<i>100%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>104%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/08/09 16:37
--	---	-----------------------------------

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D07038 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D07038-BLK1)										Extracted: 04/07/09 16:09				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/08/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6010B	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/08/09 16:37

Notes and Definitions

Report Specific Notes:

- A-01 - Additional methanol was added at the bench level due to sample matrix absorption.
- A-01a - Results in the kerosene range are primarily due to overlap from a heavy oil range product.
- A-01b - Sample was extracted by laboratory.
- C4 - Calibration Verification recovery was below the method control limit for this analyte.
- I2 - Internal Standard recovery was outside of method limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <u>Conoco Petroleum</u>		INVOICE TO:		TURNAROUND REQUEST																	
REPORT TO: <u>Wmcp Staff</u>		ADDRESS:		in Business Days *																	
PHONE:		P.O. NUMBER:		<table border="1"> <tr> <td>10</td><td>7</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td><1</td> </tr> <tr> <td>STD.</td><td>Petroleum Hydrocarbon Analyses</td><td>Petroleum Hydrocarbon Analyses</td><td>Petroleum Hydrocarbon Analyses</td><td>Petroleum Hydrocarbon Analyses</td><td>Petroleum Hydrocarbon Analyses</td><td>Petroleum Hydrocarbon Analyses</td><td>Petroleum Hydrocarbon Analyses</td> </tr> </table>		10	7	5	4	3	2	1	<1	STD.	Petroleum Hydrocarbon Analyses						
10	7	5	4	3	2	1	<1														
STD.	Petroleum Hydrocarbon Analyses	Petroleum Hydrocarbon Analyses	Petroleum Hydrocarbon Analyses	Petroleum Hydrocarbon Analyses	Petroleum Hydrocarbon Analyses	Petroleum Hydrocarbon Analyses	Petroleum Hydrocarbon Analyses														
PROJECT NAME: <u>Wmcp Pit II</u>		PRESERVATIVE:		OTHER Specify: <u>24 hr</u>																	
PROJECT NUMBER:		REQUESTED ANALYSES:		* Turnaround Requests less than standard may incur Rush Charges.																	
SAMPLED BY: <u>MRM</u>		CLIENT SAMPLE IDENTIFICATION		MATRIX (W, S, O)																	
SAMPLING DATE/TIME		DATE/TIME		# OF CONT.																	
LOCATION/ COMMENTS		TA		WO ID																	
1	<u>Area 2-B6-12.5</u>	<u>4-7-09 / 1440</u>	<u>DX 10 / Hex-5% in Ge/CM</u>	<u>S</u>	<u>5</u>	<u>PIP = 3.1 ppm</u>															
2	<u>Area 1-510-14</u>	<u>" / 1450</u>	<u>DX 10 / Hex-5% in Ge/CM</u>	<u>S</u>	<u>4</u>	<u>= 0.3</u>															
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
RELEASED BY: <u>Wmcp Staff</u>		DATE: <u>4-7-09</u>	TIME: <u>1500</u>	RECEIVED BY: <u>[Signature]</u>		DATE: <u>4-7-09</u>	TIME: <u>1505</u>														
PRINT NAME: <u>MATTHEW MASKED</u>		FIRM: <u>WMLS</u>		PRINT NAME: <u>Francisco Lams, Jr</u>		FIRM: <u>TA-SEA</u>															
RELEASED BY:		DATE:	TIME:	RECEIVED BY:		DATE:	TIME:														
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:															
ADDITIONAL REMARKS:		SEE PAGE 1 *Sandy sample - 2oz jar excluded																			

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 4/7

Date: 4/7

Date: 4/7

Work Order No. BA00076

Time: 10:00

Time: 10:17

Time: 10:45

Client: _____

Initials: CL

Initials: CL

Initials: CP/PP

Project: _____

Container Type:

COC Seals: (written by CL for PP)

Packing Material:

Cooler

Ship Container

Sign By

Bubble Bags

Styrofoam

Box

On Bottles

Date

Foam Packs

None/Other _____

None

None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

Fed Ex Client

Loose Ice _____

Y or N or NA

UPS TA Courier

None/Other _____

Initial/date/time _____

DHL Mid Valley

Servoy TDP

GS Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 5.0 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? Y or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? Y or N _____

Adequate Volume? Y or N _____
(for tests requested)

#Containers match COC? Y or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? Y or N _____

Comments: _____

Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____

Y or N

Has client been contacted regarding non-conformances? _____

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 23, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/08/09 16:15.
The following list is a summary of the Work Orders contained in this report, generated on 04/23/09
15:57.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0092	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area2-A6-11	BSD0092-01	Soil	04/08/09 09:20	04/08/09 16:15
Area1-K10-14	BSD0092-02	Soil	04/08/09 09:30	04/08/09 16:15
Area1-K9-11.5	BSD0092-03	Soil	04/08/09 09:40	04/08/09 16:15
Area1-K8-11.5	BSD0092-04	Soil	04/08/09 09:50	04/08/09 16:15
Area1-K7-10.5	BSD0092-05	Soil	04/08/09 10:00	04/08/09 16:15
Area1-K6-10.5	BSD0092-06	Soil	04/08/09 10:10	04/08/09 16:15
Area1-J6-14	BSD0092-07	Soil	04/08/09 11:50	04/08/09 16:15
Area1-J7-14	BSD0092-08	Soil	04/08/09 12:00	04/08/09 16:15
Area1-J8-14	BSD0092-09	Soil	04/08/09 12:10	04/08/09 16:15
Area1-J9-14	BSD0092-10	Soil	04/08/09 12:20	04/08/09 16:15
Area1-I6-14	BSD0092-11	Soil	04/08/09 12:30	04/08/09 16:15
Area1-I7-14	BSD0092-12	Soil	04/08/09 12:40	04/08/09 16:15
Area1-I8-14	BSD0092-13	Soil	04/08/09 12:50	04/08/09 16:15
Area1-I9-14	BSD0092-14	Soil	04/08/09 13:00	04/08/09 16:15
Area1-I10-14	BSD0092-15	Soil	04/08/09 13:10	04/08/09 16:15
Area1-H8-14	BSD0092-16	Soil	04/08/09 14:15	04/08/09 16:15
Area1-H9-14	BSD0092-17	Soil	04/08/09 14:20	04/08/09 16:15
Area1-H11-14	BSD0092-18	Soil	04/08/09 14:30	04/08/09 16:15
DUP-3	BSD0092-19	Soil	04/08/09 15:10	04/08/09 16:15

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-01 (Area2-A6-11)		Soil								Sampled: 04/08/09 09:20
Gasoline Range Hydrocarbons	NWTPH-Gx	8.39	7.39	26.4	mg/kg dry	1x	9D09003	04/08/09 15:30	04/08/09 20:48	J
Surrogate(s): 4-BFB (FID)			145%		75 - 140 %	"				ZX
BSD0092-02 (Area1-K10-14)		Soil								Sampled: 04/08/09 09:30
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	17.5	62.5	mg/kg dry	1x	9D09003	04/08/09 15:30	04/08/09 21:20	
Surrogate(s): 4-BFB (FID)			132%		75 - 140 %	"				
BSD0092-02RE1 (Area1-K10-14)		Soil								Sampled: 04/08/09 09:30
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	13.0	46.5	mg/kg dry	1x	9D09023	04/09/09 11:44	04/09/09 16:54	
Surrogate(s): 4-BFB (FID)			252%		75 - 140 %	"				ZX
BSD0092-03 (Area1-K9-11.5)		Soil								Sampled: 04/08/09 09:40
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	15.2	54.2	mg/kg dry	1x	9D09003	04/08/09 15:30	04/08/09 21:52	
Surrogate(s): 4-BFB (FID)			149%		75 - 140 %	"				ZX
BSD0092-03RE1 (Area1-K9-11.5)		Soil								Sampled: 04/08/09 09:40
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	9.53	34.0	mg/kg dry	1x	9D09023	04/09/09 11:44	04/09/09 15:49	
Surrogate(s): 4-BFB (FID)			222%		75 - 140 %	"				ZX
BSD0092-04 (Area1-K8-11.5)		Soil								Sampled: 04/08/09 09:50
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	15.0	53.5	mg/kg dry	1x	9D09003	04/08/09 15:30	04/08/09 22:24	
Surrogate(s): 4-BFB (FID)			145%		75 - 140 %	"				ZX
BSD0092-04RE1 (Area1-K8-11.5)		Soil								Sampled: 04/08/09 09:50
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	10.7	38.1	mg/kg dry	1x	9D09023	04/09/09 11:44	04/09/09 17:26	
Surrogate(s): 4-BFB (FID)			239%		75 - 140 %	"				ZX
BSD0092-05 (Area1-K7-10.5)		Soil								Sampled: 04/08/09 10:00
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	7.57	27.1	mg/kg dry	1x	9D09003	04/08/09 15:30	04/08/09 23:28	M1
Surrogate(s): 4-BFB (FID)			139%		75 - 140 %	"				

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-06 (Area1-K6-10.5)		Soil		Sampled: 04/08/09 10:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	16.2	57.9	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 02:08	
Surrogate(s): 4-BFB (FID)			154%		75 - 140 %	"				ZX
BSD0092-06RE1 (Area1-K6-10.5)		Soil		Sampled: 04/08/09 10:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	11.1	39.8	mg/kg dry	1x	9D09023	04/09/09 11:44	04/09/09 15:17	
Surrogate(s): 4-BFB (FID)			216%		75 - 140 %	"				ZX
BSD0092-07 (Area1-J6-14)		Soil		Sampled: 04/08/09 11:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.62	5.78	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 02:40	
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"				
BSD0092-08 (Area1-J7-14)		Soil		Sampled: 04/08/09 12:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	5.34	19.1	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 03:12	
Surrogate(s): 4-BFB (FID)			225%		75 - 140 %	"				ZX
BSD0092-09 (Area1-J8-14)		Soil		Sampled: 04/08/09 12:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	15.8	56.4	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 03:44	
Surrogate(s): 4-BFB (FID)			159%		75 - 140 %	"				ZX
BSD0092-09RE1 (Area1-J8-14)		Soil		Sampled: 04/08/09 12:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	10.9	39.1	mg/kg dry	1x	9D09023	04/09/09 11:44	04/09/09 14:12	MI
Surrogate(s): 4-BFB (FID)			227%		75 - 140 %	"				ZX
BSD0092-10 (Area1-J9-14)		Soil		Sampled: 04/08/09 12:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	184	8.26	29.5	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 04:16	Q1
Surrogate(s): 4-BFB (FID)			171%		75 - 140 %	"				ZX
BSD0092-11 (Area1-I6-14)		Soil		Sampled: 04/08/09 12:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.45	8.74	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 04:48	
Surrogate(s): 4-BFB (FID)			132%		75 - 140 %	"				

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-12 (Area1-I7-14)		Soil		Sampled: 04/08/09 12:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.57	5.62	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 05:20	
Surrogate(s): 4-BFB (FID)			113%		75 - 140 %	"				"
BSD0092-13 (Area1-I8-14)		Soil		Sampled: 04/08/09 12:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	7.35	3.29	11.8	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 05:52	J
Surrogate(s): 4-BFB (FID)			139%		75 - 140 %	"				"
BSD0092-14 (Area1-I9-14)		Soil		Sampled: 04/08/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	16.3	58.2	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 06:24	
Surrogate(s): 4-BFB (FID)			148%		75 - 140 %	"				ZX
BSD0092-14RE1 (Area1-I9-14)		Soil		Sampled: 04/08/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	10.6	38.0	mg/kg dry	1x	9D09023	04/09/09 11:44	04/09/09 16:22	
Surrogate(s): 4-BFB (FID)			214%		75 - 140 %	"				ZX
BSD0092-15 (Area1-I10-14)		Soil		Sampled: 04/08/09 13:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	740	9.27	33.1	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 06:56	
Surrogate(s): 4-BFB (FID)			161%		75 - 140 %	"				ZX
BSD0092-16 (Area1-H8-14)		Soil		Sampled: 04/08/09 14:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	204	9.38	33.5	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 08:32	
Surrogate(s): 4-BFB (FID)			160%		75 - 140 %	"				ZX
BSD0092-17 (Area1-H9-14)		Soil		Sampled: 04/08/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	8.70	1.71	6.10	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 09:04	
Surrogate(s): 4-BFB (FID)			125%		75 - 140 %	"				"
BSD0092-18 (Area1-H11-14)		Soil		Sampled: 04/08/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	214	10.9	38.9	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 09:36	
Surrogate(s): 4-BFB (FID)			151%		75 - 140 %	"				ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/23/09 15:57
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-19 (DUP-3)		Soil			Sampled: 04/08/09 15:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	279	8.45	30.2	mg/kg dry	1x	9D09003	04/08/09 15:30	04/09/09 10:08	
<i>Surrogate(s): 4-BFB (FID)</i>			147%		75 - 140 %	"				ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-01 (Area2-A6-11)		Soil			Sampled: 04/08/09 09:20					
Lube Oil	NWTPH-Dx	165	----	67.8	mg/kg dry	1x	9D08021	04/08/09 16:55	04/08/09 22:54	Q1
Kerosene	"	37.0	----	27.1	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	92.2	----	27.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			90.6%		54 - 148 %	"			"	
<i>Octacosane</i>			106%		62 - 142 %	"			"	
BSD0092-02 (Area1-K10-14)		Soil			Sampled: 04/08/09 09:30					
Lube Oil	NWTPH-Dx	ND	----	143	mg/kg dry	1x	9D08021	04/08/09 16:55	04/08/09 23:16	
Kerosene	"	ND	----	57.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	57.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.9%		54 - 148 %	"			"	
<i>Octacosane</i>			106%		62 - 142 %	"			"	
BSD0092-03 (Area1-K9-11.5)		Soil			Sampled: 04/08/09 09:40					
Lube Oil	NWTPH-Dx	363	----	122	mg/kg dry	1x	9D08021	04/08/09 16:55	04/08/09 23:38	Q1
Kerosene	"	ND	----	48.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	147	----	48.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			88.1%		54 - 148 %	"			"	
<i>Octacosane</i>			103%		62 - 142 %	"			"	
BSD0092-04 (Area1-K8-11.5)		Soil			Sampled: 04/08/09 09:50					
Lube Oil	NWTPH-Dx	123	----	116	mg/kg dry	1x	9D08021	04/08/09 16:55	04/08/09 23:59	Q1
Kerosene	"	ND	----	46.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	102	----	46.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			91.4%		54 - 148 %	"			"	
<i>Octacosane</i>			104%		62 - 142 %	"			"	
BSD0092-05 (Area1-K7-10.5)		Soil			Sampled: 04/08/09 10:00					
Lube Oil	NWTPH-Dx	242	----	65.5	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 00:21	Q1
Kerosene	"	27.6	----	26.2	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	105	----	26.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.4%		54 - 148 %	"			"	
<i>Octacosane</i>			102%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-06 (Area1-K6-10.5)		Soil		Sampled: 04/08/09 10:10						
Lube Oil	NWTPH-Dx	ND	----	135	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 02:09	
Kerosene	"	ND	----	54.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	54.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.3%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0092-07 (Area1-J6-14)		Soil		Sampled: 04/08/09 11:50						
Lube Oil	NWTPH-Dx	ND	----	28.9	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 02:31	
Kerosene	"	ND	----	11.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.1%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"
BSD0092-08 (Area1-J7-14)		Soil		Sampled: 04/08/09 12:00						
Lube Oil	NWTPH-Dx	ND	----	68.5	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 02:52	
Kerosene	"	ND	----	27.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	30.4	----	27.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			90.7%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0092-09 (Area1-J8-14)		Soil		Sampled: 04/08/09 12:10						
Lube Oil	NWTPH-Dx	150	----	137	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 03:13	Q1
Kerosene	"	ND	----	54.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	79.3	----	54.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			92.1%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSD0092-10 (Area1-J9-14)		Soil		Sampled: 04/08/09 12:20						
Lube Oil	NWTPH-Dx	87.8	----	74.0	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 03:35	Q1
Kerosene	"	ND	----	29.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	46.4	----	29.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			93.2%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-11 (Area1-I6-14)		Soil			Sampled: 04/08/09 12:30					
Lube Oil	NWTPH-Dx	ND	----	35.6	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 03:57	
Kerosene	"	ND	----	14.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	14.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.0%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"
BSD0092-12 (Area1-I7-14)		Soil			Sampled: 04/08/09 12:40					
Lube Oil	NWTPH-Dx	ND	----	28.7	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 04:18	
Kerosene	"	ND	----	11.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.0%		54 - 148 %	"				"
<i>Octacosane</i>			105%		62 - 142 %	"				"
BSD0092-13 (Area1-I8-14)		Soil			Sampled: 04/08/09 12:50					
Lube Oil	NWTPH-Dx	64.6	----	43.4	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 04:40	Q1
Kerosene	"	ND	----	17.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	44.3	----	17.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			91.6%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSD0092-14 (Area1-I9-14)		Soil			Sampled: 04/08/09 13:00					
Lube Oil	NWTPH-Dx	ND	----	128	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 05:02	
Kerosene	"	ND	----	51.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	51.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.4%		54 - 148 %	"				"
<i>Octacosane</i>			105%		62 - 142 %	"				"
BSD0092-15 (Area1-I10-14)		Soil			Sampled: 04/08/09 13:10					
Lube Oil	NWTPH-Dx	1110	----	86.0	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 05:23	A-01a
Kerosene	"	264	----	34.4	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	697	----	34.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			90.2%		54 - 148 %	"				"
<i>Octacosane</i>			98.1%		62 - 142 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-16 (Area1-H8-14)		Soil			Sampled: 04/08/09 14:15					
Diesel Range Hydrocarbons	NWTPH-Dx	3410	----	35.3	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 07:11	
<i>Surrogate(s): 2-FBP</i>			94.4%		54 - 148 %	"				"
<i>Octacosane</i>			93.1%		62 - 142 %	"				"
BSD0092-16RE1 (Area1-H8-14)		Soil			Sampled: 04/08/09 14:15					
Lube Oil	NWTPH-Dx	3360	----	441	mg/kg dry	5x	9D08021	04/08/09 16:55	04/09/09 08:38	A-01a
Kerosene	"	1340	----	176	"	"	"	"	"	A-01
<i>Surrogate(s): 2-FBP</i>			86.6%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"
BSD0092-17 (Area1-H9-14)		Soil			Sampled: 04/08/09 14:20					
Lube Oil	NWTPH-Dx	125	----	31.8	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 07:32	Q1
Kerosene	"	43.8	----	12.7	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	113	----	12.7	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			92.4%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSD0092-18 (Area1-H11-14)		Soil			Sampled: 04/08/09 14:30					
Kerosene	NWTPH-Dx	279	----	37.5	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 07:54	A-01
Diesel Range Hydrocarbons	"	864	----	37.5	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			96.2%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSD0092-18RE1 (Area1-H11-14)		Soil			Sampled: 04/08/09 14:30					
Lube Oil	NWTPH-Dx	1240	----	469	mg/kg dry	5x	9D08021	04/08/09 16:55	04/09/09 08:59	Q1
<i>Surrogate(s): 2-FBP</i>			91.2%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"
BSD0092-19 (DUP-3)		Soil			Sampled: 04/08/09 15:10					
Lube Oil	NWTPH-Dx	857	----	76.3	mg/kg dry	1x	9D08021	04/08/09 16:55	04/09/09 08:16	A-01a
Kerosene	"	224	----	30.5	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	571	----	30.5	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			86.4%		54 - 148 %	"				"
<i>Octacosane</i>			96.1%		62 - 142 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-01 (Area2-A6-11)		Soil						Sampled: 04/08/09 09:20		
Lead	EPA 6010B	13.3	----	11.8	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 08:43	
BSD0092-02 (Area1-K10-14)		Soil						Sampled: 04/08/09 09:30		
Lead	EPA 6010B	ND	----	22.4	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 08:46	
BSD0092-03 (Area1-K9-11.5)		Soil						Sampled: 04/08/09 09:40		
Lead	EPA 6010B	79.4	----	20.3	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 08:50	
BSD0092-04 (Area1-K8-11.5)		Soil						Sampled: 04/08/09 09:50		
Lead	EPA 6010B	30.0	----	21.0	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 08:53	
BSD0092-05 (Area1-K7-10.5)		Soil						Sampled: 04/08/09 10:00		
Lead	EPA 6010B	64.2	----	12.4	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:07	
BSD0092-06 (Area1-K6-10.5)		Soil						Sampled: 04/08/09 10:10		
Lead	EPA 6010B	ND	----	17.1	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:10	
BSD0092-07 (Area1-J6-14)		Soil						Sampled: 04/08/09 11:50		
Lead	EPA 6010B	10.5	----	3.47	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:13	
BSD0092-08 (Area1-J7-14)		Soil						Sampled: 04/08/09 12:00		
Lead	EPA 6010B	196	----	7.59	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:17	
BSD0092-09 (Area1-J8-14)		Soil						Sampled: 04/08/09 12:10		
Lead	EPA 6010B	268	----	19.7	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:20	
BSD0092-10 (Area1-J9-14)		Soil						Sampled: 04/08/09 12:20		
Lead	EPA 6010B	389	----	9.64	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:23	
BSD0092-11 (Area1-I6-14)		Soil						Sampled: 04/08/09 12:30		
Lead	EPA 6010B	77.1	----	5.94	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:27	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-12 (Area1-I7-14)		Soil					Sampled: 04/08/09 12:40			
Lead	EPA 6010B	5.43	----	4.52	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:30	
BSD0092-13 (Area1-I8-14)		Soil					Sampled: 04/08/09 12:50			
Lead	EPA 6010B	39.7	----	7.01	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:33	
BSD0092-14 (Area1-I9-14)		Soil					Sampled: 04/08/09 13:00			
Lead	EPA 6010B	60.7	----	17.9	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:37	
BSD0092-15 (Area1-I10-14)		Soil					Sampled: 04/08/09 13:10			
Lead	EPA 6010B	323	----	7.61	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:50	
BSD0092-16 (Area1-H8-14)		Soil					Sampled: 04/08/09 14:15			
Lead	EPA 6010B	332	----	10.0	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:54	
BSD0092-17 (Area1-H9-14)		Soil					Sampled: 04/08/09 14:20			
Lead	EPA 6010B	377	----	4.65	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 09:57	
BSD0092-18 (Area1-H11-14)		Soil					Sampled: 04/08/09 14:30			
Lead	EPA 6010B	1450	----	9.62	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 10:00	
BSD0092-19 (DUP-3)		Soil					Sampled: 04/08/09 15:10			
Lead	EPA 6010B	243	----	6.84	mg/kg dry	5x	9D09001	04/08/09 19:41	04/09/09 10:04	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-18	(Area1-H11-14)									
		Soil					Sampled: 04/08/09 14:30			
Lead	EPA 6010B	7.47	----	1.00	mg/l	1x	9D22013	04/22/09 11:50	04/23/09 11:27	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-01 (Area2-A6-11)		Soil		Sampled: 04/08/09 09:20						
Benzene	EPA 8260B	ND	----	2.45	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 17:50	I2
Ethylbenzene	"	ND	----	6.53	"	"	"	"	"	I2
Naphthalene	"	ND	----	16.3	"	"	"	"	"	I2
Toluene	"	ND	----	2.45	"	"	"	"	"	I2
o-Xylene	"	ND	----	8.17	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	8.17	"	"	"	"	"	I2
Total Xylenes	"	ND	----	16.3	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			132%		70 - 140 %	"			"	I2
<i>Toluene-d8</i>			127%		70 - 130 %	"			"	I2
<i>4-BFB</i>			117%		70 - 130 %	"			"	I2
BSD0092-02 (Area1-K10-14)		Soil		Sampled: 04/08/09 09:30						
Methyl tert-butyl ether	EPA 8260B	ND	----	2.88	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 18:16	
Naphthalene	"	ND	----	28.8	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			89.9%		70 - 140 %	"			"	
<i>Toluene-d8</i>			152%		70 - 130 %	"			"	I2, Z2
<i>4-BFB</i>			155%		70 - 130 %	"			"	Z1, I2
BSD0092-03 (Area1-K9-11.5)		Soil		Sampled: 04/08/09 09:40						
Benzene	EPA 8260B	ND	----	5.42	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 18:41	I2
Ethylbenzene	"	ND	----	14.5	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	3.61	"	"	"	"	"	
Naphthalene	"	ND	----	36.1	"	"	"	"	"	I2
Toluene	"	ND	----	5.42	"	"	"	"	"	I2
o-Xylene	"	ND	----	18.1	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	18.1	"	"	"	"	"	I2
Total Xylenes	"	ND	----	36.1	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			114%		70 - 140 %	"			"	I2
<i>Toluene-d8</i>			134%		70 - 130 %	"			"	I2, Z2
<i>4-BFB</i>			134%		70 - 130 %	"			"	I2, Z2

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-04 (Area1-K8-11.5)		Soil		Sampled: 04/08/09 09:50						
Benzene	EPA 8260B	ND	----	6.10	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 19:07	
Ethylbenzene	"	ND	----	16.3	"	"	"	"	"	
Methyl tert-butyl ether	"	4.88	----	4.07	"	"	"	"	"	
Naphthalene	"	ND	----	40.7	"	"	"	"	"	12
Toluene	"	ND	----	6.10	"	"	"	"	"	
o-Xylene	"	ND	----	20.3	"	"	"	"	"	
m,p-Xylene	"	26.3	----	20.3	"	"	"	"	"	
Total Xylenes	"	ND	----	40.7	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>114%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>121%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>123%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	12
BSD0092-05 (Area1-K7-10.5)		Soil		Sampled: 04/08/09 10:00						
Benzene	EPA 8260B	ND	----	2.61	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 19:32	
Ethylbenzene	"	ND	----	6.97	"	"	"	"	"	12
Methyl tert-butyl ether	"	ND	----	1.74	"	"	"	"	"	
Naphthalene	"	ND	----	17.4	"	"	"	"	"	12
Toluene	"	ND	----	2.61	"	"	"	"	"	12
o-Xylene	"	ND	----	8.72	"	"	"	"	"	12
m,p-Xylene	"	ND	----	8.72	"	"	"	"	"	12
Total Xylenes	"	ND	----	17.4	"	"	"	"	"	12
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>113%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>127%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	12
<i>4-BFB</i>			<i>127%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	12
BSD0092-06 (Area1-K6-10.5)		Soil		Sampled: 04/08/09 10:10						
Benzene	EPA 8260B	ND	----	4.22	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 19:58	12
Naphthalene	"	ND	----	28.1	"	"	"	"	"	12
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>95.1%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	12
<i>Toluene-d8</i>			<i>142%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	Z1, 12
<i>4-BFB</i>			<i>136%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	Z1, 12

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-07 (Area1-J6-14)		Soil		Sampled: 04/08/09 11:50						
Benzene	EPA 8260B	ND	----	1.05	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 20:24	
Ethylbenzene	"	ND	----	2.81	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.703	"	"	"	"	"	
Naphthalene	"	ND	----	7.03	"	"	"	"	"	
Toluene	"	ND	----	1.05	"	"	"	"	"	
o-Xylene	"	ND	----	3.52	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.52	"	"	"	"	"	
Total Xylenes	"	ND	----	7.03	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>110%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>103%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>108%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
BSD0092-08 (Area1-J7-14)		Soil		Sampled: 04/08/09 12:00						
Benzene	EPA 8260B	ND	----	3.44	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 20:49	
Ethylbenzene	"	ND	----	9.18	"	"	"	"	"	
Methyl tert-butyl ether	"	3.56	----	2.29	"	"	"	"	"	
Naphthalene	"	ND	----	22.9	"	"	"	"	"	I2
Toluene	"	ND	----	3.44	"	"	"	"	"	
o-Xylene	"	ND	----	11.5	"	"	"	"	"	
m,p-Xylene	"	ND	----	11.5	"	"	"	"	"	
Total Xylenes	"	ND	----	22.9	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>115%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>120%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>125%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2
BSD0092-09 (Area1-J8-14)		Soil		Sampled: 04/08/09 12:10						
Benzene	EPA 8260B	ND	----	4.65	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 21:15	
Ethylbenzene	"	ND	----	12.4	"	"	"	"	"	I2
Methyl tert-butyl ether	"	9.45	----	3.10	"	"	"	"	"	
Naphthalene	"	ND	----	31.0	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>109%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>127%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2
<i>4-BFB</i>			<i>127%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-10 (Area1-J9-14)		Soil		Sampled: 04/08/09 12:20						
Benzene	EPA 8260B	3.09	----	2.70	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 21:40	
Ethylbenzene	"	15.3	----	7.19	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.80	"	"	"	"	"	
Toluene	"	4.85	----	2.70	"	"	"	"	"	
o-Xylene	"	ND	----	8.98	"	"	"	"	"	
m,p-Xylene	"	27.5	----	8.98	"	"	"	"	"	
Total Xylenes	"	36.4	----	18.0	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			119%		70 - 140 %	"				
<i>Toluene-d8</i>			117%		70 - 130 %	"				
<i>4-BFB</i>			116%		70 - 130 %	"				12

BSD0092-11 (Area1-I6-14)		Soil		Sampled: 04/08/09 12:30						
Benzene	EPA 8260B	ND	----	1.12	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 22:06	
Ethylbenzene	"	ND	----	2.99	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.748	"	"	"	"	"	
Naphthalene	"	ND	----	7.48	"	"	"	"	"	
Toluene	"	ND	----	1.12	"	"	"	"	"	
o-Xylene	"	ND	----	3.74	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.74	"	"	"	"	"	
Total Xylenes	"	ND	----	7.48	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			119%		70 - 140 %	"				
<i>Toluene-d8</i>			103%		70 - 130 %	"				
<i>4-BFB</i>			105%		70 - 130 %	"				

BSD0092-12RE1 (Area1-I7-14)		Soil		Sampled: 04/08/09 12:40						
Benzene	EPA 8260B	ND	----	0.698	ug/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 23:02	
Ethylbenzene	"	ND	----	1.86	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.465	"	"	"	"	"	
Naphthalene	"	ND	----	4.65	"	"	"	"	"	
Toluene	"	ND	----	0.698	"	"	"	"	"	
o-Xylene	"	ND	----	2.33	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.33	"	"	"	"	"	
Total Xylenes	"	ND	----	4.65	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			119%		70 - 140 %	"				
<i>Toluene-d8</i>			101%		70 - 130 %	"				
<i>4-BFB</i>			103%		70 - 130 %	"				

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-13 (Area1-I8-14)	Soil		Sampled: 04/08/09 12:50							
Benzene	EPA 8260B	4.03	----	1.43	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 22:57	
Ethylbenzene	"	34.2	----	3.82	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.954	"	"	"	"	"	
Toluene	"	6.48	----	1.43	"	"	"	"	"	
o-Xylene	"	26.2	----	4.77	"	"	"	"	"	
m,p-Xylene	"	79.8	----	4.77	"	"	"	"	"	
Total Xylenes	"	106	----	9.54	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			113%		70 - 140 %	"				
<i>Toluene-d8</i>			118%		70 - 130 %	"				
<i>4-BFB</i>			128%		70 - 130 %	"				I2
BSD0092-14 (Area1-I9-14)	Soil		Sampled: 04/08/09 13:00							
Benzene	EPA 8260B	ND	----	5.82	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 23:22	I2
Methyl tert-butyl ether	"	ND	----	3.88	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			134%		70 - 140 %	"				I2
<i>Toluene-d8</i>			125%		70 - 130 %	"				I2
<i>4-BFB</i>			114%		70 - 130 %	"				I2
BSD0092-15 (Area1-I10-14)	Soil		Sampled: 04/08/09 13:10							
Methyl tert-butyl ether	EPA 8260B	ND	----	2.90	ug/kg dry	1x	9D08030	04/08/09 16:00	04/08/09 23:48	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			144%		70 - 140 %	"				I2, ZX
<i>Toluene-d8</i>			113%		70 - 130 %	"				I2
<i>4-BFB</i>			117%		70 - 130 %	"				I2
BSD0092-16 (Area1-H8-14)	Soil		Sampled: 04/08/09 14:15							
Methyl tert-butyl ether	EPA 8260B	ND	----	2.30	ug/kg dry	1x	9D08030	04/08/09 16:00	04/09/09 00:13	
<i>Surrogate(s): 1,2-DCA-d4</i>			229%		70 - 140 %	"				ZX, I2
<i>Toluene-d8</i>			143%		70 - 130 %	"				ZX, I2
<i>4-BFB</i>			134%		70 - 130 %	"				ZX, I2

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0092-17 (Area1-H9-14)		Soil			Sampled: 04/08/09 14:20						P13
Methyl tert-butyl ether	EPA 8260B	ND	----	0.596	ug/kg dry	1x	9D08030	04/08/09 16:00	04/09/09 00:39	I2	
Surrogate(s):	1,2-DCA-d4		135%		70 - 140 %	"			"	I2	
	Toluene-d8		109%		70 - 130 %	"			"	I2	
	4-BFB		104%		70 - 130 %	"			"	I2	
BSD0092-18 (Area1-H11-14)		Soil			Sampled: 04/08/09 14:30						
Methyl tert-butyl ether	EPA 8260B	ND	----	2.43	ug/kg dry	1x	9D08030	04/08/09 16:00	04/09/09 01:04	I2	
Surrogate(s):	1,2-DCA-d4		169%		70 - 140 %	"			"	ZX, I2	
	Toluene-d8		138%		70 - 130 %	"			"	ZX, I2	
	4-BFB		128%		70 - 130 %	"			"	I2	
BSD0092-19 (DUP-3)		Soil			Sampled: 04/08/09 15:10						
Benzene	EPA 8260B	157	----	2.87	ug/kg dry	1x	9D08030	04/08/09 16:00	04/09/09 01:30		
Methyl tert-butyl ether	"	ND	----	1.91	"	"	"	"	"		
Surrogate(s):	1,2-DCA-d4		148%		70 - 140 %	"			"	ZX	
	Toluene-d8		116%		70 - 130 %	"			"		
	4-BFB		119%		70 - 130 %	"			"	I2	

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-01 (Area2-A6-11)		Soil		Sampled: 04/08/09 09:20						
Methyl tert-butyl ether	EPA 8260B	ND	0.0528	0.264	mg/kg dry	1x	9D08028	04/08/09 16:00	04/08/09 18:58	
<i>Surrogate(s): 1,2-DCA-d4</i>			95.8%		75 - 125 %	"				"
<i>Toluene-d8</i>			96.6%		75 - 125 %	"				"
<i>4-BFB</i>			97.8%		75 - 125 %	"				"
BSD0092-02 (Area1-K10-14)		Soil		Sampled: 04/08/09 09:30						
Benzene	EPA 8260B	ND	0.125	0.250	mg/kg dry	1x	9D08028	04/08/09 16:00	04/08/09 19:29	
Ethylbenzene	"	ND	0.150	1.25	"	"	"	"	"	
Toluene	"	ND	0.125	1.25	"	"	"	"	"	
o-Xylene	"	ND	0.213	1.25	"	"	"	"	"	
m,p-Xylene	"	ND	0.263	2.50	"	"	"	"	"	
Xylenes (total)	"	ND	0.388	3.75	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			93.2%		75 - 125 %	"				"
<i>Toluene-d8</i>			97.9%		75 - 125 %	"				"
<i>4-BFB</i>			99.8%		75 - 125 %	"				"
BSD0092-06 (Area1-K6-10.5)		Soil		Sampled: 04/08/09 10:10						
Ethylbenzene	EPA 8260B	ND	0.139	1.16	mg/kg dry	1x	9D08028	04/08/09 16:00	04/08/09 21:33	
Methyl tert-butyl ether	"	ND	0.116	0.579	"	"	"	"	"	
Toluene	"	ND	0.116	1.16	"	"	"	"	"	
o-Xylene	"	ND	0.197	1.16	"	"	"	"	"	
m,p-Xylene	"	ND	0.243	2.32	"	"	"	"	"	
Xylenes (total)	"	ND	0.359	3.48	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			94.7%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.4%		75 - 125 %	"				"
<i>4-BFB</i>			96.1%		75 - 125 %	"				"
BSD0092-09 (Area1-J8-14)		Soil		Sampled: 04/08/09 12:10						
Toluene	EPA 8260B	ND	0.113	1.13	mg/kg dry	1x	9D08028	04/08/09 16:00	04/08/09 23:05	
o-Xylene	"	ND	0.193	1.13	"	"	"	"	"	
m,p-Xylene	"	ND	0.238	2.27	"	"	"	"	"	
Xylenes (total)	"	ND	0.352	3.40	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			95.8%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.3%		75 - 125 %	"				"
<i>4-BFB</i>			96.6%		75 - 125 %	"				"

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Volatile Organic Compounds by EPA Method 8260B

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-10 (Area1-J9-14)		Soil		Sampled: 04/08/09 12:20						
Naphthalene	EPA 8260B	ND	6.49	11.8	mg/kg dry	1x	9D08028	04/08/09 16:00	04/08/09 23:36	
<i>Surrogate(s): 1,2-DCA-d4</i>			98.5%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.6%		75 - 125 %	"				"
<i>4-BFB</i>			95.2%		75 - 125 %	"				"
BSD0092-12 (Area1-I7-14)		Soil		Sampled: 04/08/09 12:40						
Benzene	EPA 8260B	ND	0.0112	0.0225	mg/kg dry	1x	9D08028	04/08/09 16:00	04/09/09 00:38	
Ethylbenzene	"	ND	0.0135	0.112	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	0.0112	0.0562	"	"	"	"	"	
Naphthalene	"	ND	1.24	2.25	"	"	"	"	"	
Toluene	"	ND	0.0112	0.112	"	"	"	"	"	
o-Xylene	"	ND	0.0191	0.112	"	"	"	"	"	
m,p-Xylene	"	ND	0.0236	0.225	"	"	"	"	"	
Xylenes (total)	"	ND	0.0349	0.337	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			100%		75 - 125 %	"				"
<i>Toluene-d8</i>			95.6%		75 - 125 %	"				"
<i>4-BFB</i>			96.2%		75 - 125 %	"				"
BSD0092-13 (Area1-I8-14)		Soil		Sampled: 04/08/09 12:50						
Naphthalene	EPA 8260B	ND	2.59	4.70	mg/kg dry	1x	9D08028	04/08/09 16:00	04/09/09 01:09	
<i>Surrogate(s): 1,2-DCA-d4</i>			98.4%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.2%		75 - 125 %	"				"
<i>4-BFB</i>			97.9%		75 - 125 %	"				"
BSD0092-14 (Area1-I9-14)		Soil		Sampled: 04/08/09 13:00						
Ethylbenzene	EPA 8260B	ND	0.140	1.16	mg/kg dry	1x	9D08028	04/08/09 16:00	04/09/09 01:40	
Naphthalene	"	ND	12.8	23.3	"	"	"	"	"	
Toluene	"	ND	0.116	1.16	"	"	"	"	"	
o-Xylene	"	ND	0.198	1.16	"	"	"	"	"	
m,p-Xylene	"	ND	0.245	2.33	"	"	"	"	"	
Xylenes (total)	"	ND	0.361	3.49	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			97.8%		75 - 125 %	"				"
<i>Toluene-d8</i>			92.2%		75 - 125 %	"				"
<i>4-BFB</i>			97.4%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-15 (Area1-I10-14)		Soil			Sampled: 04/08/09 13:10					
Benzene	EPA 8260B	4.16	0.0662	0.132	mg/kg dry	1x	9D08028	04/08/09 16:00	04/09/09 02:11	
Ethylbenzene	"	11.7	0.0795	0.662	"	"	"	"	"	
Toluene	"	0.722	0.0662	0.662	"	"	"	"	"	
o-Xylene	"	1.70	0.113	0.662	"	"	"	"	"	
m,p-Xylene	"	8.10	0.139	1.32	"	"	"	"	"	
Xylenes (total)	"	9.79	0.205	1.99	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			97.7%		75 - 125 %	"				"
Toluene-d8			92.0%		75 - 125 %	"				"
4-BFB			92.4%		75 - 125 %	"				"
BSD0092-15RE1 (Area1-I10-14)		Soil			Sampled: 04/08/09 13:10					
Naphthalene	EPA 8260B	381	72.9	132	mg/kg dry	10x	9D09013	04/09/09 08:47	04/09/09 16:31	
Surrogate(s): 1,2-DCA-d4			93.0%		75 - 125 %	"				"
Toluene-d8			96.7%		75 - 125 %	"				"
4-BFB			98.6%		75 - 125 %	"				"
BSD0092-16 (Area1-H8-14)		Soil			Sampled: 04/08/09 14:15					
Benzene	EPA 8260B	0.677	0.0670	0.134	mg/kg dry	1x	9D08028	04/08/09 16:00	04/09/09 02:42	
Ethylbenzene	"	0.147	0.0804	0.670	"	"	"	"	"	J
Naphthalene	"	11.0	7.37	13.4	"	"	"	"	"	J
Toluene	"	0.121	0.0670	0.670	"	"	"	"	"	J
o-Xylene	"	ND	0.114	0.670	"	"	"	"	"	
m,p-Xylene	"	0.369	0.141	1.34	"	"	"	"	"	J
Xylenes (total)	"	0.449	0.208	2.01	"	"	"	"	"	J
Surrogate(s): 1,2-DCA-d4			100%		75 - 125 %	"				"
Toluene-d8			95.0%		75 - 125 %	"				"
4-BFB			95.8%		75 - 125 %	"				"
BSD0092-17 (Area1-H9-14)		Soil			Sampled: 04/08/09 14:20					
Benzene	EPA 8260B	0.149	0.0122	0.0244	mg/kg dry	1x	9D08028	04/08/09 16:00	04/09/09 03:13	
Ethylbenzene	"	0.0366	0.0147	0.122	"	"	"	"	"	J
Naphthalene	"	ND	1.34	2.44	"	"	"	"	"	
Toluene	"	0.103	0.0122	0.122	"	"	"	"	"	J
o-Xylene	"	0.0281	0.0208	0.122	"	"	"	"	"	J
m,p-Xylene	"	0.148	0.0256	0.244	"	"	"	"	"	J
Xylenes (total)	"	0.176	0.0378	0.366	"	"	"	"	"	J
Surrogate(s): 1,2-DCA-d4			95.8%		75 - 125 %	"				"
Toluene-d8			93.2%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-17 (Area1-H9-14)		Soil			Sampled: 04/08/09 14:20					
4-BFB			101%		75 - 125 %	1x			04/09/09 03:13	
BSD0092-18 (Area1-H11-14)		Soil			Sampled: 04/08/09 14:30					
Benzene	EPA 8260B	0.771	0.0779	0.156	mg/kg dry	1x	9D09013	04/09/09 08:47	04/09/09 14:58	
Ethylbenzene	"	2.41	0.0934	0.779	"	"	"	"	"	
Naphthalene	"	ND	8.57	15.6	"	"	"	"	"	
Toluene	"	0.709	0.0779	0.779	"	"	"	"	"	J
o-Xylene	"	2.34	0.132	0.779	"	"	"	"	"	
m,p-Xylene	"	6.93	0.164	1.56	"	"	"	"	"	
Xylenes (total)	"	9.27	0.241	2.34	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		94.2%		75 - 125 %	"			"	
	<i>Toluene-d8</i>		94.9%		75 - 125 %	"			"	
	<i>4-BFB</i>		95.7%		75 - 125 %	"			"	
BSD0092-19 (DUP-3)		Soil			Sampled: 04/08/09 15:10					
Ethylbenzene	EPA 8260B	4.55	0.0725	0.604	mg/kg dry	1x	9D09013	04/09/09 08:47	04/09/09 15:29	
Toluene	"	0.743	0.0604	0.604	"	"	"	"	"	
o-Xylene	"	0.694	0.103	0.604	"	"	"	"	"	
m,p-Xylene	"	3.47	0.127	1.21	"	"	"	"	"	
Xylenes (total)	"	4.16	0.187	1.81	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		92.9%		75 - 125 %	"			"	
	<i>Toluene-d8</i>		96.0%		75 - 125 %	"			"	
	<i>4-BFB</i>		98.4%		75 - 125 %	"			"	
BSD0092-19RE1 (DUP-3)		Soil			Sampled: 04/08/09 15:10					
Naphthalene	EPA 8260B	163	66.4	121	mg/kg dry	10x	9D09013	04/09/09 08:47	04/09/09 16:00	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		90.7%		75 - 125 %	"			"	
	<i>Toluene-d8</i>		98.2%		75 - 125 %	"			"	
	<i>4-BFB</i>		98.6%		75 - 125 %	"			"	

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-01 (Area2-A6-11)		Soil								Sampled: 04/08/09 09:20
Dry Weight	BSOPSPLO03R0 8	36.6	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-02 (Area1-K10-14)		Soil								Sampled: 04/08/09 09:30
Dry Weight	BSOPSPLO03R0 8	17.4	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-03 (Area1-K9-11.5)		Soil								Sampled: 04/08/09 09:40
Dry Weight	BSOPSPLO03R0 8	20.6	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-04 (Area1-K8-11.5)		Soil								Sampled: 04/08/09 09:50
Dry Weight	BSOPSPLO03R0 8	21.5	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-05 (Area1-K7-10.5)		Soil								Sampled: 04/08/09 10:00
Dry Weight	BSOPSPLO03R0 8	37.7	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-06 (Area1-K6-10.5)		Soil								Sampled: 04/08/09 10:10
Dry Weight	BSOPSPLO03R0 8	18.4	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-07 (Area1-J6-14)		Soil								Sampled: 04/08/09 11:50
Dry Weight	BSOPSPLO03R0 8	85.8	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-08 (Area1-J7-14)		Soil								Sampled: 04/08/09 12:00
Dry Weight	BSOPSPLO03R0 8	36.4	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-09 (Area1-J8-14)		Soil								Sampled: 04/08/09 12:10
Dry Weight	BSOPSPLO03R0 8	18.1	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-10 (Area1-J9-14)		Soil								Sampled: 04/08/09 12:20
Dry Weight	BSOPSPLO03R0 8	33.4	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-11 (Area1-I6-14)		Soil								Sampled: 04/08/09 12:30

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0092-11 (Area1-I6-14)		Soil								Sampled: 04/08/09 12:30
Dry Weight	BSOPSP003R0 8	69.0	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-12 (Area1-I7-14)		Soil								Sampled: 04/08/09 12:40
Dry Weight	BSOPSP003R0 8	85.7	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-13 (Area1-I8-14)		Soil								Sampled: 04/08/09 12:50
Dry Weight	BSOPSP003R0 8	57.0	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-14 (Area1-I9-14)		Soil								Sampled: 04/08/09 13:00
Dry Weight	BSOPSP003R0 8	19.2	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-15 (Area1-I10-14)		Soil								Sampled: 04/08/09 13:10
Dry Weight	BSOPSP003R0 8	28.7	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-16 (Area1-H8-14)		Soil								Sampled: 04/08/09 14:15
Dry Weight	BSOPSP003R0 8	27.9	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-17 (Area1-H9-14)		Soil								Sampled: 04/08/09 14:20
Dry Weight	BSOPSP003R0 8	77.3	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-18 (Area1-H11-14)		Soil								Sampled: 04/08/09 14:30
Dry Weight	BSOPSP003R0 8	26.2	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	
BSD0092-19 (DUP-3)		Soil								Sampled: 04/08/09 15:10
Dry Weight	BSOPSP003R0 8	32.2	----	1.00	%	1x	9D08040	04/08/09 16:57	04/09/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09003	Soil Preparation Method: EPA 5030B (P/T)
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D09003-BLK1)													Extracted: 04/08/09 15:30			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/08/09 15:45			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/08/09 15:45</i>		
LCS (9D09003-BS1)													Extracted: 04/08/09 15:30			
Gasoline Range Hydrocarbons	NWTPH-Gx	48.9	1.40	5.00	mg/kg wet	1x	--	50.0	97.7%	(80-120)	--	--	04/08/09 16:17			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/08/09 16:17</i>		
Duplicate (9D09003-DUP1)													QC Source: BSD0092-05		Extracted: 04/08/09 15:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	7.57	27.1	mg/kg dry	1x	ND	--	--	--	NR	(40)	04/09/09 00:00			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 137%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/09/09 00:00</i>		
Duplicate (9D09003-DUP2)													QC Source: BSD0092-01		Extracted: 04/08/09 15:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	7.39	26.4	mg/kg dry	1x	8.39	--	--	--	--	(40)	04/08/09 22:56			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 142%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/08/09 22:56</i>	ZX	
Matrix Spike (9D09003-MS1)													QC Source: BSD0092-05		Extracted: 04/08/09 15:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	253	7.57	27.1	mg/kg dry	1x	ND	188	135%	(75-130)	--	--	04/09/09 00:32	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 144%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/09/09 00:32</i>	ZX	

QC Batch: 9D09023	Soil Preparation Method: EPA 5030B (P/T)
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D09023-BLK1)													Extracted: 04/09/09 11:44			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/09/09 13:08			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.4%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/09/09 13:08</i>		
LCS (9D09023-BS1)													Extracted: 04/09/09 11:44			
Gasoline Range Hydrocarbons	NWTPH-Gx	48.1	1.40	5.00	mg/kg wet	1x	--	50.0	96.2%	(80-120)	--	--	04/09/09 13:40			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/09/09 13:40</i>		
Duplicate (9D09023-DUP1)													QC Source: BSD0092-09RE1		Extracted: 04/09/09 11:44	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	10.9	39.1	mg/kg dry	1x	ND	--	--	--	NR	(40)	04/09/09 14:44			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 228%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/09/09 14:44</i>	ZX	
Matrix Spike (9D09023-MS1)													QC Source: BSD0092-09RE1		Extracted: 04/09/09 11:44	
Gasoline Range Hydrocarbons	NWTPH-Gx	394	10.9	39.1	mg/kg dry	1x	ND	165	239%	(75-130)	--	--	04/09/09 17:58	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 245%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/09/09 17:58</i>	ZX	

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Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D08021 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (9D08021-BLK1)

Extracted: 04/08/09 16:55

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/08/09 21:07	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 93.2%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/08/09 21:07</i>		
<i>Octacosane</i>		<i>110%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

LCS (9D08021-BS1)

Extracted: 04/08/09 16:55

Lube Oil	NWTPH-Dx	77.1	---	25.0	mg/kg wet	1x	--	66.7	116%	(63-125)	--	--	04/08/09 21:28	
Diesel Range Hydrocarbons	"	77.9	---	10.0	"	"	--	"	117%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 93.4%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/08/09 21:28</i>		
<i>Octacosane</i>		<i>108%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

Duplicate (9D08021-DUP1)

QC Source: BSD0092-07

Extracted: 04/08/09 16:55

Lube Oil	NWTPH-Dx	ND	---	28.7	mg/kg dry	1x	ND	--	--	--	13.9%	(50)	04/08/09 21:50	
Kerosene	"	ND	---	11.5	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	11.5	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 93.4%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/08/09 21:50</i>		
<i>Octacosane</i>		<i>105%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

Duplicate (9D08021-DUP2)

QC Source: BSD0092-08

Extracted: 04/08/09 16:55

Lube Oil	NWTPH-Dx	69.2	---	68.3	mg/kg dry	1x	68.4	--	--	--	1.26%	(50)	04/08/09 22:11	
Kerosene	"	ND	---	27.3	"	"	ND	--	--	--	4.87%	"	"	
Diesel Range Hydrocarbons	"	31.4	---	27.3	"	"	30.4	--	--	--	3.06%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 89.5%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/08/09 22:11</i>		
<i>Octacosane</i>		<i>103%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

Matrix Spike (9D08021-MS1)

QC Source: BSD0092-07

Extracted: 04/08/09 16:55

Lube Oil	NWTPH-Dx	83.3	---	29.1	mg/kg dry	1x	3.77	77.5	103%	(26-150)	--	--	04/08/09 22:32	
Diesel Range Hydrocarbons	"	83.6	---	11.6	"	"	ND	"	108%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 90.2%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/08/09 22:32</i>		
<i>Octacosane</i>		<i>104%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09001 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D09001-BLK1)								Extracted: 04/08/09 19:41						
Lead	EPA 6010B	ND	---	10.1	mg/kg wet	1x	--	--	--	--	--	--	04/09/09 08:27	
LCS (9D09001-BS1)								Extracted: 04/08/09 19:41						
Lead	EPA 6010B	255	---	1.01	mg/kg wet	1x	--	253	101%	(80-120)	--	--	04/09/09 08:30	
Duplicate (9D09001-DUP1)				QC Source: BSD0092-01				Extracted: 04/08/09 19:41						
Lead	EPA 6010B	16.4	---	13.5	mg/kg dry	5x	ND	--	--	--	21.0% (40)	--	04/09/09 08:36	
Matrix Spike (9D09001-MS1)				QC Source: BSD0092-01				Extracted: 04/08/09 19:41						
Lead	EPA 6010B	657	---	12.8	mg/kg dry	5x	13.3	638	101%	(51-144)	--	--	04/09/09 08:33	
Post Spike (9D09001-PS1)				QC Source: BSD0092-01				Extracted: 04/08/09 19:41						
Lead	EPA 6010B	611	---	11.8	mg/kg dry	5x	13.3	589	102%	(75-125)	--	--	04/09/09 08:40	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22013 **TCLP Preparation Method: EPA 3010A TCLP**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D22013-BLK1)								Extracted: 04/22/09 11:50						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/23/09 11:04	
Blank (9D22013-BLK2)								Extracted: 04/22/09 11:50						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/23/09 11:07	
LCS (9D22013-BS1)								Extracted: 04/22/09 11:50						
Lead	EPA 6010B	46.4	---	1.00	mg/l	1x	--	50.0	92.7%	(80-120)	--	--	04/23/09 11:11	
Duplicate (9D22013-DUP1)				QC Source: BSD0036-01				Extracted: 04/22/09 11:50						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	ND	--	--	--	2.63% (20)	--	04/23/09 11:17	
Matrix Spike (9D22013-MS1)				QC Source: BSD0036-01				Extracted: 04/22/09 11:50						
Lead	EPA 6010B	46.6	---	1.00	mg/l	1x	0.154	50.0	92.9%	(80-120)	--	--	04/23/09 11:14	
Post Spike (9D22013-PS1)				QC Source: BSD0036-01				Extracted: 04/22/09 11:50						
Lead	EPA 6010B	4.76	---		ug/ml	1x	0.0154	5.00	94.8%	(75-125)	--	--	04/23/09 11:20	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D08030 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D08030-BLK1)

Extracted: 04/08/09 13:20

Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	04/08/09 17:19	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	C4
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	C4
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/23/09 15:57

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D08030 **Soil Preparation Method: EPA 5035**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (9D08030-BLK1)

Extracted: 04/08/09 13:20

Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	04/08/09 17:19	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	C4
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	C4
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i> 1,2-DCA-d4	<i>Recovery:</i> 111%	<i>Limits:</i> 70-140%	"	04/08/09 17:19
Toluene-d8	99.4%	70-130%	"	"
4-BFB	104%	70-130%	"	"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/23/09 15:57

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D08030 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D08030-BS1)													Extracted: 04/08/09 13:20	MNR1
Acetone	EPA 8260B	546	---	40.0	ug/kg wet	1x	--	500	109%	(60-140)	--	--	04/08/09 16:28	
Benzene	"	44.8	---	1.50	"	"	--	50.0	89.7%	(70-125)	--	--	"	
2-Butanone	"	527	---	30.0	"	"	--	500	105%	(60-140)	--	--	"	
Carbon disulfide	"	32.8	---	3.00	"	"	--	50.0	65.6%	(70-130)	--	--	"	L2
Chlorobenzene	"	45.4	---	2.00	"	"	--	"	90.7%	(70-125)	--	--	"	
1,1-Dichloroethane	"	46.5	---	2.00	"	"	--	"	93.1%	(75-125)	--	--	"	
1,1-Dichloroethene	"	39.3	---	3.00	"	"	--	"	78.5%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	47.4	---	3.00	"	"	--	"	94.9%	(75-125)	--	--	"	
Ethylbenzene	"	44.9	---	4.00	"	"	--	"	89.7%	(70-125)	--	--	"	
Hexachlorobutadiene	"	49.4	---	10.0	"	"	--	"	98.8%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	522	---	30.0	"	"	--	500	104%	(60-140)	--	--	"	
Tetrachloroethene	"	43.4	---	2.00	"	"	--	50.0	86.9%	(70-125)	--	--	"	
Toluene	"	44.1	---	1.50	"	"	--	"	88.2%	"	--	--	"	
1,1,1-Trichloroethane	"	45.0	---	2.50	"	"	--	"	89.9%	(70-130)	--	--	"	
Trichloroethene	"	43.3	---	2.50	"	"	--	"	86.5%	(70-125)	--	--	"	

Surrogate(s): 1,2-DCA-d4 Recovery: 97.2% Limits: 70-140% " 04/08/09 16:28
 Toluene-d8 99.3% 70-130% " "
 4-BFB 100% 70-130% " "

LCS Dup (9D08030-BSD1)

Extracted: 04/08/09 13:20

Acetone	EPA 8260B	547	---	40.0	ug/kg wet	1x	--	500	109%	(60-140)	0.262% (30)		04/08/09 16:54	
Benzene	"	46.4	---	1.50	"	"	--	50.0	92.8%	(70-125)	3.46%	"	"	
2-Butanone	"	562	---	30.0	"	"	--	500	112%	(60-140)	6.47%	"	"	
Carbon disulfide	"	32.8	---	3.00	"	"	--	50.0	65.7%	(70-130)	0.152%	"	"	L2
Chlorobenzene	"	46.8	---	2.00	"	"	--	"	93.5%	(70-125)	3.06%	"	"	
1,1-Dichloroethane	"	45.6	---	2.00	"	"	--	"	91.3%	(75-125)	1.91%	"	"	
1,1-Dichloroethene	"	39.4	---	3.00	"	"	--	"	78.7%	(70-130)	0.254%	"	"	
cis-1,2-Dichloroethene	"	47.2	---	3.00	"	"	--	"	94.5%	(75-125)	0.422%	"	"	
Ethylbenzene	"	47.0	---	4.00	"	"	--	"	94.0%	(70-125)	4.59%	"	"	
Hexachlorobutadiene	"	48.6	---	10.0	"	"	--	"	97.1%	(70-130)	1.76%	"	"	
4-Methyl-2-pentanone	"	563	---	30.0	"	"	--	500	113%	(60-140)	7.56%	"	"	
Tetrachloroethene	"	46.0	---	2.00	"	"	--	50.0	92.0%	(70-125)	5.73%	"	"	
Toluene	"	45.9	---	1.50	"	"	--	"	91.7%	"	3.96%	"	"	
1,1,1-Trichloroethane	"	45.3	---	2.50	"	"	--	"	90.6%	(70-130)	0.753%	"	"	
Trichloroethene	"	46.3	---	2.50	"	"	--	"	92.6%	(70-125)	6.81%	"	"	

Surrogate(s): 1,2-DCA-d4 Recovery: 98.9% Limits: 70-140% " 04/08/09 16:54
 Toluene-d8 97.6% 70-130% " "
 4-BFB 101% 70-130% " "

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9D09045

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D09045-BLK1)													Extracted: 04/09/09 08:06	
Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	04/09/09 18:21	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09045 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D09045-BLK1)

Extracted: 04/09/09 08:06

n-Hexane	EPA 8260B	ND	---	5.00	ug/kg wet	1x	--	--	--	--	--	--	04/09/09 18:21	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	100%	Limits:	70-140%	"	04/09/09 18:21
	Toluene-d8		101%		70-130%	"	"
	4-BFB		101%		70-130%	"	"

LCS (9D09045-BS1)

Extracted: 04/09/09 08:06

MNR1

Acetone	EPA 8260B	563	---	40.0	ug/kg wet	1x	--	500	113%	(60-140)	--	--	04/09/09 17:29	
Benzene	"	35.1	---	1.50	"	"	--	50.0	70.1%	(70-125)	--	--	"	
2-Butanone	"	578	---	30.0	"	"	--	500	116%	(60-140)	--	--	"	
Carbon disulfide	"	23.3	---	3.00	"	"	--	50.0	46.5%	(70-130)	--	--	"	L2
Chlorobenzene	"	38.5	---	2.00	"	"	--	"	76.9%	(70-125)	--	--	"	
1,1-Dichloroethane	"	35.9	---	2.00	"	"	--	"	71.7%	(75-125)	--	--	"	L2
1,1-Dichloroethene	"	27.6	---	3.00	"	"	--	"	55.1%	(70-130)	--	--	"	L2
cis-1,2-Dichloroethene	"	37.2	---	3.00	"	"	--	"	74.5%	(75-125)	--	--	"	L2
Ethylbenzene	"	35.4	---	4.00	"	"	--	"	70.8%	(70-125)	--	--	"	
Hexachlorobutadiene	"	36.4	---	10.0	"	"	--	"	72.9%	(70-130)	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09045 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D09045-BS1)										Extracted: 04/09/09 08:06			MNR1	
4-Methyl-2-pentanone	EPA 8260B	574	---	30.0	ug/kg wet	1x	--	500	115%	(60-140)	--	--	04/09/09 17:29	
Tetrachloroethene	"	33.5	---	2.00	"	"	--	50.0	66.9%	(70-125)	--	--	"	L2
Toluene	"	36.2	---	1.50	"	"	--	"	72.4%	"	--	--	"	
1,1,1-Trichloroethane	"	32.6	---	2.50	"	"	--	"	65.3%	(70-130)	--	--	"	L2
Trichloroethene	"	33.7	---	2.50	"	"	--	"	67.4%	(70-125)	--	--	"	L2
Total Xylenes	"	107	---	10.0	"	"	--	150	71.1%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 98.4%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>04/09/09 17:29</i>		
<i>Toluene-d8</i>		<i>100%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>104%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
LCS Dup (9D09045-BSD1)										Extracted: 04/09/09 08:06				
Acetone	EPA 8260B	616	---	40.0	ug/kg wet	1x	--	500	123%	(60-140)	9.01% (30)		04/09/09 23:27	
Benzene	"	39.1	---	1.50	"	"	--	50.0	78.2%	(70-125)	10.9%	"	"	
2-Butanone	"	595	---	30.0	"	"	--	500	119%	(60-140)	2.87%	"	"	
Carbon disulfide	"	25.3	---	3.00	"	"	--	50.0	50.7%	(70-130)	8.56%	"	"	L2
Chlorobenzene	"	39.8	---	2.00	"	"	--	"	79.5%	(70-125)	3.27%	"	"	
1,1-Dichloroethane	"	39.9	---	2.00	"	"	--	"	79.9%	(75-125)	10.7%	"	"	
1,1-Dichloroethene	"	30.9	---	3.00	"	"	--	"	61.8%	(70-130)	11.4%	"	"	L2
cis-1,2-Dichloroethene	"	42.4	---	3.00	"	"	--	"	84.8%	(75-125)	13.0%	"	"	
Ethylbenzene	"	37.2	---	4.00	"	"	--	"	74.4%	(70-125)	4.88%	"	"	
Hexachlorobutadiene	"	37.4	---	10.0	"	"	--	"	74.9%	(70-130)	2.71%	"	"	
4-Methyl-2-pentanone	"	569	---	30.0	"	"	--	500	114%	(60-140)	0.831%	"	"	
Tetrachloroethene	"	35.2	---	2.00	"	"	--	50.0	70.5%	(70-125)	5.21%	"	"	
Toluene	"	37.9	---	1.50	"	"	--	"	75.8%	"	4.59%	"	"	
1,1,1-Trichloroethane	"	36.2	---	2.50	"	"	--	"	72.3%	(70-130)	10.3%	"	"	
Trichloroethene	"	38.9	---	2.50	"	"	--	"	77.7%	(70-125)	14.3%	"	"	
Total Xylenes	"	114	---	10.0	"	"	--	150	75.7%	(70-130)	6.24%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 105%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>04/09/09 23:27</i>		
<i>Toluene-d8</i>		<i>100%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>98.8%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D08028 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D08028-BLK1)													Extracted: 04/08/09 13:00	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/08/09 18:27	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 94.6% Limits: 75-125% " 04/08/09 18:27</i>														
<i>Toluene-d8 98.8% 75-125% " "</i>														
<i>4-BFB 99.8% 75-125% " "</i>														

LCS (9D08028-BS1)													Extracted: 04/08/09 13:00		MNR1
Benzene	EPA 8260B	3.68	0.0100	0.0200	mg/kg wet	1x	--	4.00	92.0%	(75-125)	--	--	04/08/09 16:54		
Ethylbenzene	"	3.87	0.0120	0.100	"	"	--	"	96.8%	"	--	--	"		
Methyl tert-butyl ether	"	3.62	0.0100	0.0500	"	"	--	"	90.6%	"	--	--	"		
Naphthalene	"	3.71	1.10	2.00	"	"	--	"	92.7%	(60-140)	--	--	"		
Toluene	"	3.68	0.0100	0.100	"	"	--	"	92.1%	(75-125)	--	--	"		
o-Xylene	"	3.73	0.0170	0.100	"	"	--	"	93.3%	"	--	--	"		
m,p-Xylene	"	7.44	0.0210	0.200	"	"	--	8.00	93.0%	"	--	--	"		
Xylenes (total)	"	11.2	0.0310	0.300	"	"	--	12.0	93.1%	"	--	--	"		
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 96.0% Limits: 75-125% " 04/08/09 16:54</i>															
<i>Toluene-d8 92.8% 75-125% " "</i>															
<i>4-BFB 97.2% 75-125% " "</i>															

LCS Dup (9D08028-BSD1)													Extracted: 04/08/09 13:00	
Benzene	EPA 8260B	3.54	0.0100	0.0200	mg/kg wet	1x	--	4.00	88.4%	(75-125)	3.99% (20)		04/08/09 17:25	
Ethylbenzene	"	3.64	0.0120	0.100	"	"	--	"	91.0%	"	6.10%	"	"	
Methyl tert-butyl ether	"	3.65	0.0100	0.0500	"	"	--	"	91.3%	"	0.769%	"	"	
Naphthalene	"	3.94	1.10	2.00	"	"	--	"	98.6%	(60-140)	6.14%	"	"	
Toluene	"	3.45	0.0100	0.100	"	"	--	"	86.4%	(75-125)	6.44%	"	"	
o-Xylene	"	3.51	0.0170	0.100	"	"	--	"	87.8%	"	6.16%	"	"	
m,p-Xylene	"	6.87	0.0210	0.200	"	"	--	8.00	85.8%	"	8.02%	"	"	
Xylenes (total)	"	10.4	0.0310	0.300	"	"	--	12.0	86.5%	"	7.40%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 95.7% Limits: 75-125% " 04/08/09 17:25</i>														
<i>Toluene-d8 93.6% 75-125% " "</i>														
<i>4-BFB 101% 75-125% " "</i>														

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 15:57
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09013 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D09013-BLK1)													Extracted: 04/09/09 08:47	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/09/09 14:27	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.1% Limits: 75-125% "</i>														
<i>Toluene-d8 95.1% 75-125% "</i>														
<i>4-BFB 97.4% 75-125% "</i>														

LCS (9D09013-BS1)													Extracted: 04/09/09 08:47	
Benzene	EPA 8260B	3.74	0.0100	0.0200	mg/kg wet	1x	--	4.00	93.6%	(75-125)	--	--	04/09/09 12:54	
Ethylbenzene	"	3.90	0.0120	0.100	"	"	--	"	97.4%	"	--	--	"	
Methyl tert-butyl ether	"	3.81	0.0100	0.0500	"	"	--	"	95.2%	"	--	--	"	
Naphthalene	"	3.95	1.10	2.00	"	"	--	"	98.7%	(60-140)	--	--	"	
Toluene	"	3.78	0.0100	0.100	"	"	--	"	94.5%	(75-125)	--	--	"	
o-Xylene	"	3.84	0.0170	0.100	"	"	--	"	96.1%	"	--	--	"	
m,p-Xylene	"	7.56	0.0210	0.200	"	"	--	8.00	94.4%	"	--	--	"	
Xylenes (total)	"	11.4	0.0310	0.300	"	"	--	12.0	95.0%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 94.9% Limits: 75-125% "</i>														
<i>Toluene-d8 93.9% 75-125% "</i>														
<i>4-BFB 98.4% 75-125% "</i>														

LCS Dup (9D09013-BSD1)													Extracted: 04/09/09 08:47	
Benzene	EPA 8260B	3.35	0.0100	0.0200	mg/kg wet	1x	--	4.00	83.8%	(75-125)	11.0% (20)		04/09/09 13:25	
Ethylbenzene	"	3.46	0.0120	0.100	"	"	--	"	86.5%	"	11.9%	"	"	
Methyl tert-butyl ether	"	3.46	0.0100	0.0500	"	"	--	"	86.6%	"	9.57%	"	"	
Naphthalene	"	3.71	1.10	2.00	"	"	--	"	92.8%	(60-140)	6.11%	"	"	
Toluene	"	3.33	0.0100	0.100	"	"	--	"	83.2%	(75-125)	12.7%	"	"	
o-Xylene	"	3.37	0.0170	0.100	"	"	--	"	84.2%	"	13.2%	"	"	
m,p-Xylene	"	6.65	0.0210	0.200	"	"	--	8.00	83.1%	"	12.7%	"	"	
Xylenes (total)	"	10.0	0.0310	0.300	"	"	--	12.0	83.5%	"	12.9%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.6% Limits: 75-125% "</i>														
<i>Toluene-d8 95.2% 75-125% "</i>														
<i>4-BFB 97.0% 75-125% "</i>														

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/23/09 15:57
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D08040 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D08040-BLK1)										Extracted: 04/08/09 16:57				
Dry Weight	BSOPSP00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/09/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the kerosene range are primarily due to overlap from heavy oil range product.
- A-01a - The hydrocarbons present are a complex mixture of multiple heavy oil range products.
- C4 - Calibration Verification recovery was below the method control limit for this analyte.
- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- L2 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z1 - Surrogate recovery was above acceptance limits.
- Z2 - Surrogate recovery was above the acceptance limits. Data not impacted.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 15:57

Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.
Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.
Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA0092**

CLIENT: CONOCO PHILLIPS		INVOICE TO: CP		TURNAROUND REQUEST				
REPORT TO: WMCP SKD		P.O. NUMBER:		in Business Days *				
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses				
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses				
PROJECT NAME:		DATE		STD.				
PROJECT NUMBER:		DATE		STD.				
SAMPLED BY: MATTHEW MCKEESBIN		DATE		OTHER				
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		Specify: 24-hr				
				* Turnaround Requests less than standard may incur Rush Charges.				
				MATRIX (W, S, O)				
				# OF CONT.				
				LOCATION/ COMMENTS				
				TA				
				WO ID				
1	Area 2-A6-11	4-8-09 / 0920	✓	✓	S	5	Sawdust	
2	Area 1-K10-14	" / 0930	✓	✓			PEP-App Sawdust	
3	" -K9-11.5	" / 0940	✓	✓			2. PEP Sawdust	
4	" -K8-11.5	" / 0950	✓	✓			0.2 App Sawdust	
5	" -K7-10.5	" / 1000	✓	✓			0.7 App Sawdust	
6	" -K6-10.5	" / 1010	✓	✓			0.1 App Sawdust	
7	" -J6-14	" / 1150	✓	✓			0.1 App Sawdust	
8	" -J7-14	" / 1200	✓	✓			App Sawdust	
9	" -J8-14	" / 1210	✓	✓			1.5 App Sawdust	
10	" -J9-14	" / 1220	✓	✓			1.4 App Sawdust	
							1.8 App Sawdust	
							11 App Sawdust	

RECEIVED BY: **Francisco Linares, Jr.**
 PRINT NAME: **Francisco Linares, Jr.**
 DATE: **4-8-09**
 TIME: **1410**

RECEIVED BY:
 PRINT NAME:
 DATE:
 TIME:

RECEIVED BY:
 PRINT NAME:
 DATE:
 TIME:

FIRM: **TA-SEA**
 DATE: **4/8/09**
 TIME: **1510**

FIRM:
 DATE:
 TIME:

FIRM:
 DATE:
 TIME:

ADDITIONAL REMARKS:
*** w/ Napthalene + mTBE**

FIRM: **@L&L KIS**
 TEMP: **6.1°C**
 W/S

FIRM:
 TEMP:
 W/S

FIRM:
 TEMP:
 W/S

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <u>Conoco Phillips</u>		INVOICE TO: <u>CP</u>		TURNAROUND REQUEST						
REPORT TO: <u>Wmep Staff</u>		P.O. NUMBER:		in Business Days *						
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses						
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses						
PROJECT NAME: <u>Wmep Phase II</u>				STD.						
PROJECT NUMBER:				STD.						
SAMPLED BY: <u>MATTHEW MCKEON</u>				OTHER Specify: <u>24 hr</u>						
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	LEAD	8260K	Dx (w/acid silica gel/cu)	MUTAH	MUTAH	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 <u>Area 1 - I6 - 14</u>	<u>4-8-09 / 1230</u>	X	X	X	X	X	S	5	<u>Silt/Sandy mud</u>	<u>11</u>
2 " - <u>I7 - 14</u>	<u>" / 1240</u>	X	X	X	X	X		4	<u>Silty Oil Spill</u>	<u>12</u>
3 " - <u>I8 - 14</u>	<u>" / 1250</u>	X	X	X	X	X		5	<u>Fill Material</u>	<u>13</u>
4 " - <u>I9 - 14</u>	<u>" / 1300</u>	X	X	X	X	X		5	<u>8.3 open Swath</u>	<u>14</u>
5 " - <u>I10 - 14</u>	<u>" / 1310</u>	X	X	X	X	X		5	<u>2.8 open Core</u>	<u>15</u>
6 " - <u>H8 - 14</u>	<u>" / 1415</u>	X	X	X	X	X		5	<u>7.7 open Silt/Wood</u>	<u>14</u>
7 " - <u>H9 - 14</u>	<u>" / 1420</u>	X	X	X	X	X		5	<u>50 open Swath Silt</u>	<u>17</u>
8 " - <u>H10 - 14</u>	" / <u>1425</u>	X	X	X	X	X		5	<u>Silt/Wood</u>	
9 " - <u>H11 - 14</u>	<u>" / 1430</u>	X	X	X	X	X		5	<u>1 open Swath</u>	<u>16</u>
10 <u>DWP-3</u>	<u>" / -</u>	X	X	X	X	X		5	<u>1 open Swath</u>	<u>19</u>

NOT SUBMITTED

RECEIVED BY: [Signature] DATE: 4-8-09 TIME: 1410
 PRINT NAME: Francisco Lung, Jr. FIRM: TA-SEA
 RECEIVED BY: [Signature] DATE: 4/8/09 TIME: 1510
 PRINT NAME: [Signature] FIRM: TA-SEA

ADDITIONAL REMARKS: RW/Naphthalene + MUTAH

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/8/09

Date: 4/8

Date: 4/8

Work Order No. B000092

Time: 1615

Time: 16:30 16:27

Time: 16:45

Client: _____

Initials: FL

Initials: CC/HP
4/8

Initials: CC/HP

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

____ Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

None/Other Bubble wrap

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? 6.1 or NA comments _____

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N _____

Adequate Volume? or N _____

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? Y or NA _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 10, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/09/09 15:50.
The following list is a summary of the Work Orders contained in this report, generated on 04/10/09
17:02.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0108	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-I11-14	BSD0108-01	Soil	04/09/09 08:45	04/09/09 15:50
Area1-I12-14	BSD0108-02	Soil	04/09/09 08:50	04/09/09 15:50
Area2-D10-14	BSD0108-03	Soil	04/09/09 09:45	04/09/09 15:50
Area2-C10-14	BSD0108-04	Soil	04/09/09 10:30	04/09/09 15:50
Area2-B10-14	BSD0108-05	Soil	04/09/09 11:00	04/09/09 15:50
Area2-A10-14	BSD0108-06	Soil	04/09/09 11:15	04/09/09 15:50
Area2-B6-9	BSD0108-07	Soil	04/09/09 11:20	04/09/09 15:50
Area2-C9-9	BSD0108-08	Soil	04/09/09 11:45	04/09/09 15:50
Area1-H7-14	BSD0108-09	Soil	04/09/09 13:30	04/09/09 15:50
Area2-B9-9	BSD0108-10	Soil	04/09/09 14:15	04/09/09 15:50

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/10/09 17:02
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-01 (Area1-I11-14)		Soil		Sampled: 04/09/09 08:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	3.95	2.94	10.5	mg/kg dry	1x	9D09043	04/09/09 17:09	04/09/09 20:08	J
Surrogate(s): 4-BFB (FID)			158%		75 - 140 %	"			"	ZX
BSD0108-02 (Area1-I12-14)		Soil		Sampled: 04/09/09 08:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	15.7	56.0	mg/kg dry	1x	9D09043	04/09/09 17:09	04/09/09 20:40	
Surrogate(s): 4-BFB (FID)			139%		75 - 140 %	"			"	
BSD0108-03 (Area2-D10-14)		Soil		Sampled: 04/09/09 09:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	21.9	14.2	50.8	mg/kg dry	1x	9D09043	04/09/09 17:09	04/09/09 21:12	J
Surrogate(s): 4-BFB (FID)			181%		75 - 140 %	"			"	ZX
BSD0108-04 (Area2-C10-14)		Soil		Sampled: 04/09/09 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	13.9	49.7	mg/kg dry	1x	9D09043	04/09/09 17:09	04/09/09 21:44	
Surrogate(s): 4-BFB (FID)			151%		75 - 140 %	"			"	ZX
BSD0108-04RE1 (Area2-C10-14)		Soil		Sampled: 04/09/09 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	9.16	32.7	mg/kg dry	1x	9D10008	04/10/09 09:54	04/10/09 13:47	M1
Surrogate(s): 4-BFB (FID)			207%		75 - 140 %	"			"	ZX
BSD0108-05 (Area2-B10-14)		Soil		Sampled: 04/09/09 11:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	21.4	11.3	40.4	mg/kg dry	1x	9D09043	04/09/09 17:09	04/09/09 22:16	J
Surrogate(s): 4-BFB (FID)			167%		75 - 140 %	"			"	ZX
BSD0108-06 (Area2-A10-14)		Soil		Sampled: 04/09/09 11:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	22.2	19.4	69.2	mg/kg dry	1x	9D09043	04/09/09 17:09	04/09/09 22:48	J
Surrogate(s): 4-BFB (FID)			141%		75 - 140 %	"			"	ZX
BSD0108-07 (Area2-B6-9)		Soil		Sampled: 04/09/09 11:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	18.5	66.1	mg/kg dry	1x	9D09043	04/09/09 17:09	04/10/09 01:28	
Surrogate(s): 4-BFB (FID)			183%		75 - 140 %	"			"	ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/10/09 17:02
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-08 (Area2-C9-9)		Soil		Sampled: 04/09/09 11:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.83	6.55	mg/kg dry	1x	9D09043	04/09/09 17:09	04/10/09 02:00	
Surrogate(s): 4-BFB (FID)			115%		75 - 140 %	"				"
BSD0108-09 (Area1-H7-14)		Soil		Sampled: 04/09/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	4.24	2.09	7.47	mg/kg dry	1x	9D09043	04/09/09 17:09	04/10/09 02:32	J
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	"				"
BSD0108-10 (Area2-B9-9)		Soil		Sampled: 04/09/09 14:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	13.9	49.5	mg/kg dry	1x	9D09043	04/09/09 17:09	04/10/09 03:04	
Surrogate(s): 4-BFB (FID)			149%		75 - 140 %	"				ZX
BSD0108-10RE1 (Area2-B9-9)		Soil		Sampled: 04/09/09 14:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	9.38	33.5	mg/kg dry	1x	9D10008	04/10/09 09:54	04/10/09 12:43	
Surrogate(s): 4-BFB (FID)			205%		75 - 140 %	"				ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-01 (Area1-I11-14)		Soil			Sampled: 04/09/09 08:45					
Lube Oil	NWTPH-Dx	69.1	----	45.6	mg/kg dry	1x	9D09047	04/09/09 16:12	04/09/09 21:04	Q1
Kerosene	"	ND	----	18.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	33.5	----	18.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			82.0%		54 - 148 %	"			"	
<i>Octacosane</i>			95.8%		62 - 142 %	"			"	
BSD0108-02 (Area1-I12-14)		Soil			Sampled: 04/09/09 08:50					
Lube Oil	NWTPH-Dx	666	----	116	mg/kg dry	1x	9D09047	04/09/09 16:12	04/09/09 21:28	M2, Q1
Kerosene	"	ND	----	46.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	322	----	46.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			78.7%		54 - 148 %	"			"	
<i>Octacosane</i>			86.6%		62 - 142 %	"			"	
BSD0108-03 (Area2-D10-14)		Soil			Sampled: 04/09/09 09:45					
Lube Oil	NWTPH-Dx	ND	----	117	mg/kg dry	1x	9D09047	04/09/09 16:12	04/09/09 21:52	
Kerosene	"	ND	----	46.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	46.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			82.8%		54 - 148 %	"			"	
<i>Octacosane</i>			98.7%		62 - 142 %	"			"	
BSD0108-04 (Area2-C10-14)		Soil			Sampled: 04/09/09 10:30					
Lube Oil	NWTPH-Dx	168	----	116	mg/kg dry	1x	9D09047	04/09/09 16:12	04/09/09 22:15	Q1
Kerosene	"	ND	----	46.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	83.0	----	46.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			87.9%		54 - 148 %	"			"	
<i>Octacosane</i>			98.9%		62 - 142 %	"			"	
BSD0108-05 (Area2-B10-14)		Soil			Sampled: 04/09/09 11:00					
Lube Oil	NWTPH-Dx	201	----	88.6	mg/kg dry	1x	9D09047	04/09/09 16:12	04/09/09 22:39	Q1
Kerosene	"	ND	----	35.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	65.9	----	35.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			87.5%		54 - 148 %	"			"	
<i>Octacosane</i>			99.4%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/10/09 17:02
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-06 (Area2-A10-14)		Soil		Sampled: 04/09/09 11:15						
Lube Oil	NWTPH-Dx	ND	----	135	mg/kg dry	1x	9D09047	04/09/09 16:12	04/09/09 23:02	
Kerosene	"	ND	----	54.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	54.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			77.1%		54 - 148 %	"				"
<i>Octacosane</i>			91.9%		62 - 142 %	"				"
BSD0108-07 (Area2-B6-9)		Soil		Sampled: 04/09/09 11:20						
Lube Oil	NWTPH-Dx	ND	----	132	mg/kg dry	1x	9D09047	04/09/09 16:12	04/10/09 01:00	
Kerosene	"	ND	----	52.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	52.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.0%		54 - 148 %	"				"
<i>Octacosane</i>			101%		62 - 142 %	"				"
BSD0108-08 (Area2-C9-9)		Soil		Sampled: 04/09/09 11:45						
Lube Oil	NWTPH-Dx	ND	----	30.3	mg/kg dry	1x	9D09047	04/09/09 16:12	04/10/09 01:24	
Kerosene	"	ND	----	12.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.0%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSD0108-09 (Area1-H7-14)		Soil		Sampled: 04/09/09 13:30						
Lube Oil	NWTPH-Dx	ND	----	34.3	mg/kg dry	1x	9D09047	04/09/09 16:12	04/10/09 01:48	
Kerosene	"	ND	----	13.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.1%		54 - 148 %	"				"
<i>Octacosane</i>			105%		62 - 142 %	"				"
BSD0108-10 (Area2-B9-9)		Soil		Sampled: 04/09/09 14:15						
Lube Oil	NWTPH-Dx	252	----	116	mg/kg dry	1x	9D09047	04/09/09 16:12	04/10/09 02:11	Q1
Kerosene	"	ND	----	46.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	108	----	46.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			77.4%		54 - 148 %	"				"
<i>Octacosane</i>			93.9%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-01	(Area1-I11-14)	Soil		Sampled: 04/09/09 08:45						
Lead	EPA 6010B	48.2	----	7.42	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:00	
BSD0108-02	(Area1-I12-14)	Soil		Sampled: 04/09/09 08:50						
Lead	EPA 6010B	242	----	10.9	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:03	
BSD0108-03	(Area2-D10-14)	Soil		Sampled: 04/09/09 09:45						
Lead	EPA 6010B	89.0	----	11.3	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:06	
BSD0108-04	(Area2-C10-14)	Soil		Sampled: 04/09/09 10:30						
Lead	EPA 6010B	483	----	13.0	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:10	
BSD0108-05	(Area2-B10-14)	Soil		Sampled: 04/09/09 11:00						
Lead	EPA 6010B	126	----	10.2	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:23	
BSD0108-06	(Area2-A10-14)	Soil		Sampled: 04/09/09 11:15						
Lead	EPA 6010B	19.4	----	13.2	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:27	
BSD0108-07	(Area2-B6-9)	Soil		Sampled: 04/09/09 11:20						
Lead	EPA 6010B	44.6	----	12.2	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:30	
BSD0108-08	(Area2-C9-9)	Soil		Sampled: 04/09/09 11:45						
Lead	EPA 6010B	ND	----	5.78	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:33	
BSD0108-09	(Area1-H7-14)	Soil		Sampled: 04/09/09 13:30						
Lead	EPA 6010B	16.6	----	5.84	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:37	
BSD0108-10	(Area2-B9-9)	Soil		Sampled: 04/09/09 14:15						
Lead	EPA 6010B	35.0	----	13.0	mg/kg dry	5x	9D10001	04/10/09 07:04	04/10/09 12:40	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-01 (Area1-I11-14)		Soil		Sampled: 04/09/09 08:45						
Benzene	EPA 8260B	ND	----	0.00204	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 18:46	I2
Ethylbenzene	"	ND	----	0.00544	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00136	"	"	"	"	"	I2
Toluene	"	ND	----	0.00204	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.00680	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.00680	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0136	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>121%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>Toluene-d8</i>			<i>117%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>108%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
BSD0108-02 (Area1-I12-14)		Soil		Sampled: 04/09/09 08:50						
Benzene	EPA 8260B	ND	----	0.00543	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 19:12	I2
Ethylbenzene	"	ND	----	0.0145	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00362	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.0362	"	"	"	"	"	I2
Toluene	"	ND	----	0.00543	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0181	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0181	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0362	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>118%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>Toluene-d8</i>			<i>126%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>122%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
BSD0108-03 (Area2-D10-14)		Soil		Sampled: 04/09/09 09:45						
Benzene	EPA 8260B	ND	----	0.00361	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 19:37	I2
Naphthalene	"	ND	----	0.0241	"	"	"	"	"	I2
Toluene	"	ND	----	0.00361	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>114%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>Toluene-d8</i>			<i>128%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>117%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-04 (Area2-C10-14)		Soil		Sampled: 04/09/09 10:30						
Benzene	EPA 8260B	ND	----	0.00474	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 20:03	
Ethylbenzene	"	ND	----	0.0126	"	"	"	"	"	I2
Methyl tert-butyl ether	"	0.00607	----	0.00316	"	"	"	"	"	
Naphthalene	"	ND	----	0.0316	"	"	"	"	"	I2
Toluene	"	ND	----	0.00474	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0158	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0158	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0316	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				106%		70 - 140 %	"		"	
<i>Toluene-d8</i>				119%		70 - 130 %	"		"	I2
<i>4-BFB</i>				119%		70 - 130 %	"		"	I2
BSD0108-05 (Area2-B10-14)		Soil		Sampled: 04/09/09 11:00						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00233	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 20:29	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				126%		70 - 140 %	"		"	I2
<i>Toluene-d8</i>				120%		70 - 130 %	"		"	I2
<i>4-BFB</i>				116%		70 - 130 %	"		"	I2
BSD0108-06 (Area2-A10-14)		Soil		Sampled: 04/09/09 11:15						
Benzene	EPA 8260B	ND	----	0.00699	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 20:54	
Methyl tert-butyl ether	"	ND	----	0.00466	"	"	"	"	"	
Toluene	"	ND	----	0.00699	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				123%		70 - 140 %	"		"	
<i>Toluene-d8</i>				129%		70 - 130 %	"		"	I2
<i>4-BFB</i>				123%		70 - 130 %	"		"	I2
BSD0108-07 (Area2-B6-9)		Soil		Sampled: 04/09/09 11:20						
Benzene	EPA 8260B	ND	----	0.00622	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 21:20	
Ethylbenzene	"	ND	----	0.0166	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.0415	"	"	"	"	"	I2
Toluene	"	ND	----	0.00622	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0207	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0207	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0415	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				102%		70 - 140 %	"		"	
<i>Toluene-d8</i>				137%		70 - 130 %	"		"	ZI, I2
<i>4-BFB</i>				132%		70 - 130 %	"		"	ZI, I2

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-08 (Area2-C9-9)		Soil		Sampled: 04/09/09 11:45						
Benzene	EPA 8260B	ND	----	0.00117	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 21:45	I2
Ethylbenzene	"	ND	----	0.00312	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.000780	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.00780	"	"	"	"	"	I2
Toluene	"	ND	----	0.00117	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.00390	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.00390	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.00780	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				123%		70 - 140 %	"		"	I2
<i>Toluene-d8</i>				98.0%		70 - 130 %	"		"	I2
<i>4-BFB</i>				99.7%		70 - 130 %	"		"	I2
BSD0108-09 (Area1-H7-14)		Soil		Sampled: 04/09/09 13:30						
Benzene	EPA 8260B	ND	----	0.00102	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 22:11	
Ethylbenzene	"	ND	----	0.00273	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000682	"	"	"	"	"	
Naphthalene	"	ND	----	0.00682	"	"	"	"	"	
Toluene	"	ND	----	0.00102	"	"	"	"	"	
o-Xylene	"	ND	----	0.00341	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00341	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00682	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				122%		70 - 140 %	"		"	
<i>Toluene-d8</i>				98.7%		70 - 130 %	"		"	
<i>4-BFB</i>				105%		70 - 130 %	"		"	
BSD0108-10 (Area2-B9-9)		Soil		Sampled: 04/09/09 14:15						
Naphthalene	EPA 8260B	ND	----	0.0295	mg/kg dry	1x	9D09045	04/09/09 16:00	04/09/09 22:36	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				110%		70 - 140 %	"		"	I2
<i>Toluene-d8</i>				127%		70 - 130 %	"		"	I2
<i>4-BFB</i>				125%		70 - 130 %	"		"	I2

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/10/09 17:02
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Volatile Organic Compounds by EPA Method 8260B

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-01 (Area1-I11-14)		Soil		Sampled: 04/09/09 08:45						
Naphthalene	EPA 8260B	ND	2.31	4.20	mg/kg dry	1x	9D09013	04/09/09 15:00	04/09/09 17:49	
<i>Surrogate(s): 1,2-DCA-d4</i>			88.4%		75 - 125 %	"				"
<i>Toluene-d8</i>			99.0%		75 - 125 %	"				"
<i>4-BFB</i>			101%		75 - 125 %	"				"
BSD0108-03 (Area2-D10-14)		Soil		Sampled: 04/09/09 09:45						
Ethylbenzene	EPA 8260B	ND	0.122	1.02	mg/kg dry	1x	9D09013	04/09/09 15:00	04/09/09 18:51	
Methyl tert-butyl ether	"	ND	0.102	0.508	"	"	"	"	"	
o-Xylene	"	ND	0.173	1.02	"	"	"	"	"	
m,p-Xylene	"	ND	0.213	2.03	"	"	"	"	"	
Xylenes (total)	"	ND	0.315	3.05	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			93.4%		75 - 125 %	"				"
<i>Toluene-d8</i>			96.4%		75 - 125 %	"				"
<i>4-BFB</i>			100%		75 - 125 %	"				"
BSD0108-05 (Area2-B10-14)		Soil		Sampled: 04/09/09 11:00						
Benzene	EPA 8260B	ND	0.0808	0.162	mg/kg dry	1x	9D09013	04/09/09 15:00	04/09/09 19:53	
Ethylbenzene	"	0.137	0.0969	0.808	"	"	"	"	"	J
Naphthalene	"	ND	8.88	16.2	"	"	"	"	"	
Toluene	"	ND	0.0808	0.808	"	"	"	"	"	
o-Xylene	"	ND	0.137	0.808	"	"	"	"	"	
m,p-Xylene	"	0.275	0.170	1.62	"	"	"	"	"	J
Xylenes (total)	"	0.355	0.250	2.42	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			93.8%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.3%		75 - 125 %	"				"
<i>4-BFB</i>			100%		75 - 125 %	"				"
BSD0108-06 (Area2-A10-14)		Soil		Sampled: 04/09/09 11:15						
Ethylbenzene	EPA 8260B	0.208	0.166	1.38	mg/kg dry	1x	9D09013	04/09/09 15:00	04/09/09 20:24	J
Naphthalene	"	ND	15.2	27.7	"	"	"	"	"	
o-Xylene	"	ND	0.235	1.38	"	"	"	"	"	
m,p-Xylene	"	0.665	0.291	2.77	"	"	"	"	"	J
Xylenes (total)	"	0.665	0.429	4.15	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			93.6%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.6%		75 - 125 %	"				"
<i>4-BFB</i>			98.0%		75 - 125 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-07 (Area2-B6-9)		Soil			Sampled: 04/09/09 11:20					
Methyl tert-butyl ether	EPA 8260B	ND	0.132	0.661	mg/kg dry	1x	9D09013	04/09/09 15:00	04/09/09 20:55	
Surrogate(s):	1,2-DCA-d4		97.1%		75 - 125 %	"				"
	Toluene-d8		94.5%		75 - 125 %	"				"
	4-BFB		96.6%		75 - 125 %	"				"
BSD0108-10 (Area2-B9-9)		Soil			Sampled: 04/09/09 14:15					
Benzene	EPA 8260B	ND	0.0990	0.198	mg/kg dry	1x	9D09013	04/09/09 15:00	04/09/09 22:28	
Ethylbenzene	"	ND	0.119	0.990	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	0.0990	0.495	"	"	"	"	"	"
Toluene	"	ND	0.0990	0.990	"	"	"	"	"	"
o-Xylene	"	ND	0.168	0.990	"	"	"	"	"	"
m,p-Xylene	"	ND	0.208	1.98	"	"	"	"	"	"
Xylenes (total)	"	ND	0.307	2.97	"	"	"	"	"	"
Surrogate(s):	1,2-DCA-d4		95.9%		75 - 125 %	"				"
	Toluene-d8		91.8%		75 - 125 %	"				"
	4-BFB		97.8%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0108-01 (Area1-I11-14)		Soil								Sampled: 04/09/09 08:45
Dry Weight	BSOPSPL003R0 8	54.8	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	
BSD0108-02 (Area1-I12-14)		Soil								Sampled: 04/09/09 08:50
Dry Weight	BSOPSPL003R0 8	21.8	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	
BSD0108-03 (Area2-D10-14)		Soil								Sampled: 04/09/09 09:45
Dry Weight	BSOPSPL003R0 8	21.6	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	
BSD0108-04 (Area2-C10-14)		Soil								Sampled: 04/09/09 10:30
Dry Weight	BSOPSPL003R0 8	22.0	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	
BSD0108-05 (Area2-B10-14)		Soil								Sampled: 04/09/09 11:00
Dry Weight	BSOPSPL003R0 8	28.2	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	
BSD0108-06 (Area2-A10-14)		Soil								Sampled: 04/09/09 11:15
Dry Weight	BSOPSPL003R0 8	18.3	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	
BSD0108-07 (Area2-B6-9)		Soil								Sampled: 04/09/09 11:20
Dry Weight	BSOPSPL003R0 8	18.8	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	
BSD0108-08 (Area2-C9-9)		Soil								Sampled: 04/09/09 11:45
Dry Weight	BSOPSPL003R0 8	81.6	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	
BSD0108-09 (Area1-H7-14)		Soil								Sampled: 04/09/09 13:30
Dry Weight	BSOPSPL003R0 8	73.8	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	
BSD0108-10 (Area2-B9-9)		Soil								Sampled: 04/09/09 14:15
Dry Weight	BSOPSPL003R0 8	21.6	----	1.00	%	1x	9D09048	04/09/09 16:14	04/10/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/10/09 17:02
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09043 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D09043-BLK1)													Extracted: 04/09/09 17:09			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/09/09 19:03			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.8%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/09/09 19:03</i>		
LCS (9D09043-BS1)													Extracted: 04/09/09 17:09			
Gasoline Range Hydrocarbons	NWTPH-Gx	47.6	1.40	5.00	mg/kg wet	1x	--	50.0	95.1%	(80-120)	--	--	04/09/09 19:35			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 100%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/09/09 19:35</i>		
Duplicate (9D09043-DUP1)													QC Source: BSD0108-01		Extracted: 04/09/09 17:09	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.94	10.5	mg/kg dry	1x	3.95	--	--	--	--	(40)	04/09/09 23:20			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 158%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/09/09 23:20</i>	ZX	
Matrix Spike (9D09043-MS1)													QC Source: BSD0108-01		Extracted: 04/09/09 17:09	
Gasoline Range Hydrocarbons	NWTPH-Gx	113	2.94	10.5	mg/kg dry	1x	3.95	63.8	171%	(75-130)	--	--	04/09/09 23:52	M1		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 169%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/09/09 23:52</i>	ZX	

QC Batch: 9D10008 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D10008-BLK1)													Extracted: 04/10/09 09:54			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/10/09 11:29			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.3%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/10/09 11:29</i>		
LCS (9D10008-BS1)													Extracted: 04/10/09 09:54			
Gasoline Range Hydrocarbons	NWTPH-Gx	54.8	1.40	5.00	mg/kg wet	1x	--	50.0	110%	(80-120)	--	--	04/10/09 12:01			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/10/09 12:01</i>		
Duplicate (9D10008-DUP1)													QC Source: BSD0108-10RE1		Extracted: 04/10/09 09:54	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	9.38	33.5	mg/kg dry	1x	ND	--	--	--	NR	(40)	04/10/09 13:15			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 206%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/10/09 13:15</i>	ZX	
Matrix Spike (9D10008-MS1)													QC Source: BSD0108-04RE1		Extracted: 04/10/09 09:54	
Gasoline Range Hydrocarbons	NWTPH-Gx	356	9.16	32.7	mg/kg dry	1x	ND	150	238%	(75-130)	--	--	04/10/09 14:19	M1		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 224%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/10/09 14:19</i>	ZX	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09047

Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D09047-BLK1)													Extracted: 04/09/09 16:12			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/09/09 19:29			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>82.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/09/09 19:29</i>			
<i>Octacosane</i>			<i>104%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>			
LCS (9D09047-BS1)													Extracted: 04/09/09 16:12			
Lube Oil	NWTPH-Dx	58.3	---	25.0	mg/kg wet	1x	--	66.7	87.5%	(63-125)	--	--	04/09/09 19:53			
Diesel Range Hydrocarbons	"	68.7	---	10.0	"	"	--	"	103%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/09/09 19:53</i>			
<i>Octacosane</i>			<i>102%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9D09047-DUP1)													QC Source: BSD0108-02		Extracted: 04/09/09 16:12	
Lube Oil	NWTPH-Dx	505	---	117	mg/kg dry	1x	666	--	--	--	27.5%	(50)	04/09/09 20:17			
Kerosene	"	ND	---	46.7	"	"	ND	--	--	--	39.8%	"	"			
Diesel Range Hydrocarbons	"	217	---	46.7	"	"	322	--	--	--	38.8%	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>79.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/09/09 20:17</i>			
<i>Octacosane</i>			<i>87.3%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9D09047-MS1)													QC Source: BSD0108-02		Extracted: 04/09/09 16:12	
Lube Oil	NWTPH-Dx	680	---	115	mg/kg dry	1x	666	307	4.78%	(26-150)	--	--	04/09/09 20:40	M2		
Diesel Range Hydrocarbons	"	475	---	46.1	"	"	322	"	49.8%	(46-155)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>80.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/09/09 20:40</i>			
<i>Octacosane</i>			<i>91.3%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>			

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Curtis D. Armstrong For Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D10001 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D10001-BLK1)								Extracted: 04/10/09 07:05						
Lead	EPA 6010B	ND	---	1.04	mg/kg wet	1x	--	--	--	--	--	--	04/10/09 11:44	
LCS (9D10001-BS1)								Extracted: 04/10/09 07:05						
Lead	EPA 6010B	234	---	0.962	mg/kg wet	1x	--	240	97.3%	(80-120)	--	--	04/10/09 11:47	
Duplicate (9D10001-DUP1)				QC Source: BSD0108-01				Extracted: 04/10/09 07:05						
Lead	EPA 6010B	47.7	---	7.36	mg/kg dry	5x	48.2	--	--	--	1.04% (40)	--	04/10/09 11:53	
Matrix Spike (9D10001-MS1)				QC Source: BSD0108-01				Extracted: 04/10/09 07:05						
Lead	EPA 6010B	384	---	7.02	mg/kg dry	5x	48.2	351	95.6%	(51-144)	--	--	04/10/09 11:50	
Post Spike (9D10001-PS1)				QC Source: BSD0108-01				Extracted: 04/10/09 07:05						
Lead	EPA 6010B	5.56	---		ug/ml	5x	0.650	5.00	98.1%	(75-125)	--	--	04/10/09 11:57	

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Curtis D. Armstrong For Kate Haney, Project Manager

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09045 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D09045-BLK1)

Extracted: 04/09/09 08:06

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/09/09 18:21	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/10/09 17:02

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09045 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D09045-BLK1)													Extracted: 04/09/09 08:06	
n-Hexane	EPA 8260B	ND	---	0.00500	mg/kg wet	1x	--	--	--	--	--	--	04/09/09 18:21	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	100%	Limits:	70-140%	"							04/09/09 18:21	
	Toluene-d8		101%		70-130%	"							"	
	4-BFB		101%		70-130%	"							"	

LCS (9D09045-BS1)

Extracted: 04/09/09 08:06

Acetone	EPA 8260B	0.563	---	0.0400	mg/kg wet	1x	--	0.500	113%	(60-140)	--	--	04/09/09 17:29	
Benzene	"	0.0351	---	0.00150	"	"	--	0.0500	70.1%	(70-125)	--	--	"	
2-Butanone	"	0.578	---	0.0300	"	"	--	0.500	116%	(60-140)	--	--	"	
Carbon disulfide	"	0.0233	---	0.00300	"	"	--	0.0500	46.5%	(70-130)	--	--	"	L2
Chlorobenzene	"	0.0385	---	0.00200	"	"	--	"	76.9%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0359	---	0.00200	"	"	--	"	71.7%	(75-125)	--	--	"	L2
1,1-Dichloroethene	"	0.0276	---	0.00300	"	"	--	"	55.1%	(70-130)	--	--	"	L2
cis-1,2-Dichloroethene	"	0.0372	---	0.00300	"	"	--	"	74.5%	(75-125)	--	--	"	L2
Ethylbenzene	"	0.0354	---	0.00400	"	"	--	"	70.8%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0364	---	0.0100	"	"	--	"	72.9%	(70-130)	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/10/09 17:02
--	---	-----------------------------------

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09045 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9D09045-BS1)

Extracted: 04/09/09 08:06

4-Methyl-2-pentanone	EPA 8260B	0.574	---	0.0300	mg/kg wet	1x	--	0.500	115%	(60-140)	--	--	04/09/09 17:29	
Tetrachloroethene	"	0.0335	---	0.00200	"	"	--	0.0500	66.9%	(70-125)	--	--	"	L2
Toluene	"	0.0362	---	0.00150	"	"	--	"	72.4%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0326	---	0.00250	"	"	--	"	65.3%	(70-130)	--	--	"	L2
Trichloroethene	"	0.0337	---	0.00250	"	"	--	"	67.4%	(70-125)	--	--	"	L2
Total Xylenes	"	0.107	---	0.0100	"	"	--	0.150	71.1%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 98.4% Limits: 70-140% "</i>														<i>04/09/09 17:29</i>
<i>Toluene-d8 100% 70-130% "</i>														<i>"</i>
<i>4-BFB 104% 70-130% "</i>														<i>"</i>

LCS Dup (9D09045-BSD1)

Extracted: 04/09/09 08:06

Acetone	EPA 8260B	0.616	---	0.0400	mg/kg wet	1x	--	0.500	123%	(60-140)	9.01% (30)		04/09/09 23:27	
Benzene	"	0.0391	---	0.00150	"	"	--	0.0500	78.2%	(70-125)	10.9%	"	"	
2-Butanone	"	0.595	---	0.0300	"	"	--	0.500	119%	(60-140)	2.87%	"	"	
Carbon disulfide	"	0.0253	---	0.00300	"	"	--	0.0500	50.7%	(70-130)	8.56%	"	"	L2
Chlorobenzene	"	0.0398	---	0.00200	"	"	--	"	79.5%	(70-125)	3.27%	"	"	
1,1-Dichloroethane	"	0.0399	---	0.00200	"	"	--	"	79.9%	(75-125)	10.7%	"	"	
1,1-Dichloroethene	"	0.0309	---	0.00300	"	"	--	"	61.8%	(70-130)	11.4%	"	"	L2
cis-1,2-Dichloroethene	"	0.0424	---	0.00300	"	"	--	"	84.8%	(75-125)	13.0%	"	"	
Ethylbenzene	"	0.0372	---	0.00400	"	"	--	"	74.4%	(70-125)	4.88%	"	"	
Hexachlorobutadiene	"	0.0374	---	0.0100	"	"	--	"	74.9%	(70-130)	2.71%	"	"	
4-Methyl-2-pentanone	"	0.569	---	0.0300	"	"	--	0.500	114%	(60-140)	0.831%	"	"	
Tetrachloroethene	"	0.0352	---	0.00200	"	"	--	0.0500	70.5%	(70-125)	5.21%	"	"	
Toluene	"	0.0379	---	0.00150	"	"	--	"	75.8%	"	4.59%	"	"	
1,1,1-Trichloroethane	"	0.0362	---	0.00250	"	"	--	"	72.3%	(70-130)	10.3%	"	"	
Trichloroethene	"	0.0389	---	0.00250	"	"	--	"	77.7%	(70-125)	14.3%	"	"	
Total Xylenes	"	0.114	---	0.0100	"	"	--	0.150	75.7%	(70-130)	6.24%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 105% Limits: 70-140% "</i>														<i>04/09/09 23:27</i>
<i>Toluene-d8 100% 70-130% "</i>														<i>"</i>
<i>4-BFB 98.8% 70-130% "</i>														<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/10/09 17:02
--	---	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09013 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D09013-BLK1)													Extracted: 04/09/09 08:47	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/09/09 14:27	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.1% Limits: 75-125% "</i>														
<i>Toluene-d8 95.1% 75-125% "</i>														
<i>4-BFB 97.4% 75-125% "</i>														

LCS (9D09013-BS1)													Extracted: 04/09/09 08:47	
Benzene	EPA 8260B	3.74	0.0100	0.0200	mg/kg wet	1x	--	4.00	93.6%	(75-125)	--	--	04/09/09 12:54	
Ethylbenzene	"	3.90	0.0120	0.100	"	"	--	"	97.4%	"	--	--	"	
Methyl tert-butyl ether	"	3.81	0.0100	0.0500	"	"	--	"	95.2%	"	--	--	"	
Naphthalene	"	3.95	1.10	2.00	"	"	--	"	98.7%	(60-140)	--	--	"	
Toluene	"	3.78	0.0100	0.100	"	"	--	"	94.5%	(75-125)	--	--	"	
o-Xylene	"	3.84	0.0170	0.100	"	"	--	"	96.1%	"	--	--	"	
m,p-Xylene	"	7.56	0.0210	0.200	"	"	--	8.00	94.4%	"	--	--	"	
Xylenes (total)	"	11.4	0.0310	0.300	"	"	--	12.0	95.0%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 94.9% Limits: 75-125% "</i>														
<i>Toluene-d8 93.9% 75-125% "</i>														
<i>4-BFB 98.4% 75-125% "</i>														

LCS Dup (9D09013-BSD1)													Extracted: 04/09/09 08:47	
Benzene	EPA 8260B	3.35	0.0100	0.0200	mg/kg wet	1x	--	4.00	83.8%	(75-125)	11.0% (20)		04/09/09 13:25	
Ethylbenzene	"	3.46	0.0120	0.100	"	"	--	"	86.5%	"	11.9%	"	"	
Methyl tert-butyl ether	"	3.46	0.0100	0.0500	"	"	--	"	86.6%	"	9.57%	"	"	
Naphthalene	"	3.71	1.10	2.00	"	"	--	"	92.8%	(60-140)	6.11%	"	"	
Toluene	"	3.33	0.0100	0.100	"	"	--	"	83.2%	(75-125)	12.7%	"	"	
o-Xylene	"	3.37	0.0170	0.100	"	"	--	"	84.2%	"	13.2%	"	"	
m,p-Xylene	"	6.65	0.0210	0.200	"	"	--	8.00	83.1%	"	12.7%	"	"	
Xylenes (total)	"	10.0	0.0310	0.300	"	"	--	12.0	83.5%	"	12.9%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.6% Limits: 75-125% "</i>														
<i>Toluene-d8 95.2% 75-125% "</i>														
<i>4-BFB 97.0% 75-125% "</i>														

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/10/09 17:02
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D09048 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D09048-BLK1)										Extracted: 04/09/09 16:14				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/10/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6010B	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/10/09 17:02

Notes and Definitions

Report Specific Notes:

- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- L2 - Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M2 - The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- Z1 - Surrogate recovery was above acceptance limits.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX: 420-9210
 509-924-9200 FAX: 924-9290
 503-906-9200 FAX: 906-9210
 907-563-9200 FAX: 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA0108**

CLIENT: CONOCO PHILLIPS		INVOICE TO: cf			
REPORT TO: Wmcf Staff		TURNAROUND REQUEST			
ADDRESS:		in Business Days *			
PHONE:		<input type="checkbox"/> 10 STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD.			
PROJECT NAME: Wmcf AK II		OTHER: 24-10			
PROJECT NUMBER:		Specify: 24-10			
SAMPLED BY: MATTHEW MCKIBBIN		* Turnaround Requests less than standard may incur Rush Charges.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 AREA1-EM-14	4-9-09 / 0845	S	5	WOOD/SAND PED = 0.3ppm	01
2 " -I12-14	" / 0850		5	SAND	02
3 AREA2-DIO-14	" / 0945		5	SAND	03
4 " -C10-14	" / 1030		5	SAND	04
5 " -B10-14	" / 1100		5	SAND	05
6 " -A10-14	" / 1115		5	SAND	06
7 " -B6-9	" / 1120		5	SAND	07
8 " -C9-9	" / 1145		4	Five Sand w/ tr. wood	08
9 AREA1-H7-14	" / 1330		5	SAND	09
10 AREA2-B9-9	" / 1415		5	SAND	10

RECEIVED BY: **FRANCIS LANGRIS** DATE: **4-9-09** TIME: **1445**
 PRINT NAME: **FRANCIS LANGRIS** FIRM: **TH SFA**
 RECEIVED BY: **FRANCIS LANGRIS** DATE: **4-9-09** TIME: **1445**
 PRINT NAME: **FRANCIS LANGRIS** FIRM: **TH SFA**
 ADDITIONAL REMARKS: **Temp: 5.2 @ Lab 1550 w/o**

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or **N**

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/9/09

Date: 4/9

Date: 4/9

Work Order No. 0000108

Time: 1550

Time: 16:01

Time: 17:00

Client: _____

Initials: FL

Initials: CL

Initials: CL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

None/Other Bubble Wrap

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 5.2 °C or NA comments _____

Trip Blank? Y or **N** or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved?

Y or N or **NA** _____

Provided by TA? or N _____

Client QAPP Preserved?

Y or N or **NA** _____

Correct Type? or N _____

Adequate Volume?

or N _____

#Containers match COC? or N _____

(for tests requested)

Water VOAs: Headspace? Y or N or **NA** _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

August 04, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/10/09 16:20.
The following list is a summary of the Work Orders contained in this report, generated on 08/04/09
08:34.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0125	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-H12-14	BSD0125-01	Soil	04/10/09 09:15	04/10/09 16:20
Area1-H13-14	BSD0125-02	Soil	04/10/09 09:20	04/10/09 16:20
Area1-H14-14	BSD0125-03	Soil	04/10/09 09:30	04/10/09 16:20
Area1-H15-14	BSD0125-04	Soil	04/10/09 09:40	04/10/09 16:20
Area1-I13-14	BSD0125-05	Soil	04/10/09 09:50	04/10/09 16:20
Area1-I14-14	BSD0125-06	Soil	04/10/09 10:00	04/10/09 16:20
Area1-I15-14	BSD0125-07	Soil	04/10/09 10:10	04/10/09 16:20
Area1-F11-14	BSD0125-08	Soil	04/10/09 11:10	04/10/09 16:20
Area1-F12-14	BSD0125-09	Soil	04/10/09 11:20	04/10/09 16:20
Area1-F13-14	BSD0125-10	Soil	04/10/09 11:30	04/10/09 16:20
Area1-F14-14	BSD0125-11	Soil	04/10/09 11:40	04/10/09 16:20
Area1-G11-14	BSD0125-12	Soil	04/10/09 11:50	04/10/09 16:20
Area1-G12-14	BSD0125-13	Soil	04/10/09 12:00	04/10/09 16:20
Area1-G13-14	BSD0125-14	Soil	04/10/09 12:10	04/10/09 16:20
Area1-G14-14	BSD0125-15	Soil	04/10/09 12:20	04/10/09 16:20
Area1-J8-9	BSD0125-16	Soil	04/10/09 14:00	04/10/09 16:20
Area1-J9-9	BSD0125-17	Soil	04/10/09 14:10	04/10/09 16:20

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-01 (Area1-H12-14)										
		Soil	Sampled: 04/10/09 09:15							
Gasoline Range Hydrocarbons	NWTPH-Gx	15.9	14.4	51.4	mg/kg dry	1x	9D10030	04/10/09 16:00	04/10/09 20:13	J
Surrogate(s): 4-BFB (FID)			151%		75 - 140 %	"				ZX
BSD0125-01RE1 (Area1-H12-14)										A-01a
		Soil	Sampled: 04/10/09 09:15							
Gasoline Range Hydrocarbons	NWTPH-Gx	16.5	9.74	34.8	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 10:11	J, MI
Surrogate(s): 4-BFB (FID)			207%		75 - 140 %	"				ZX
BSD0125-02 (Area1-H13-14)										
		Soil	Sampled: 04/10/09 09:20							
Gasoline Range Hydrocarbons	NWTPH-Gx	133	2.30	8.21	mg/kg dry	1x	9D10030	04/10/09 16:00	04/10/09 20:45	MI
Surrogate(s): 4-BFB (FID)			159%		75 - 140 %	"				ZX
BSD0125-03 (Area1-H14-14)										
		Soil	Sampled: 04/10/09 09:30							
Gasoline Range Hydrocarbons	NWTPH-Gx	49.5	17.6	62.8	mg/kg dry	1x	9D10030	04/10/09 16:00	04/10/09 21:17	J
Surrogate(s): 4-BFB (FID)			182%		75 - 140 %	"				ZX
BSD0125-03RE1 (Area1-H14-14)										A-01a
		Soil	Sampled: 04/10/09 09:30							
Gasoline Range Hydrocarbons	NWTPH-Gx	18.9	10.1	36.2	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 13:48	J
Surrogate(s): 4-BFB (FID)			208%		75 - 140 %	"				ZX
BSD0125-04 (Area1-H15-14)										
		Soil	Sampled: 04/10/09 09:40							
Gasoline Range Hydrocarbons	NWTPH-Gx	48.6	16.8	60.0	mg/kg dry	1x	9D10030	04/10/09 16:00	04/10/09 21:49	J
Surrogate(s): 4-BFB (FID)			152%		75 - 140 %	"				ZX
BSD0125-04RE1 (Area1-H15-14)										A-01a
		Soil	Sampled: 04/10/09 09:40							
Gasoline Range Hydrocarbons	NWTPH-Gx	16.2	11.3	40.2	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 11:15	J
Surrogate(s): 4-BFB (FID)			212%		75 - 140 %	"				ZX
BSD0125-05 (Area1-H13-14)										
		Soil	Sampled: 04/10/09 09:50							
Gasoline Range Hydrocarbons	NWTPH-Gx	61.3	22.3	79.6	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 01:01	J
Surrogate(s): 4-BFB (FID)			173%		75 - 140 %	"				ZX

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0125-05RE1 (Area1-I13-14)		Soil		Sampled: 04/10/09 09:50							A-01a
Gasoline Range Hydrocarbons	NWTPH-Gx	96.2	13.0	46.5	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 15:56		
Surrogate(s): 4-BFB (FID)			213%		75 - 140 %	"				ZX	
BSD0125-06 (Area1-I14-14)		Soil		Sampled: 04/10/09 10:00							
Gasoline Range Hydrocarbons	NWTPH-Gx	92.8	19.0	68.0	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 01:33		
Surrogate(s): 4-BFB (FID)			149%		75 - 140 %	"				ZX	
BSD0125-07 (Area1-I15-14)		Soil		Sampled: 04/10/09 10:10							
Gasoline Range Hydrocarbons	NWTPH-Gx	104	25.6	91.3	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 02:05		
Surrogate(s): 4-BFB (FID)			154%		75 - 140 %	"				ZX	
BSD0125-08 (Area1-F11-14)		Soil		Sampled: 04/10/09 11:10							
Gasoline Range Hydrocarbons	NWTPH-Gx	25.5	3.17	11.3	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 02:37		
Surrogate(s): 4-BFB (FID)			148%		75 - 140 %	"				ZX	
BSD0125-09 (Area1-F12-14)		Soil		Sampled: 04/10/09 11:20							
Gasoline Range Hydrocarbons	NWTPH-Gx	43.8	17.6	62.8	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 03:09	J	
Surrogate(s): 4-BFB (FID)			184%		75 - 140 %	"				ZX	
BSD0125-09RE1 (Area1-F12-14)		Soil		Sampled: 04/10/09 11:20							A-01a
Gasoline Range Hydrocarbons	NWTPH-Gx	19.4	10.7	38.3	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 16:28	J	
Surrogate(s): 4-BFB (FID)			210%		75 - 140 %	"				ZX	
BSD0125-10 (Area1-F13-14)		Soil		Sampled: 04/10/09 11:30							
Gasoline Range Hydrocarbons	NWTPH-Gx	23.0	13.8	49.4	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 03:41	J	
Surrogate(s): 4-BFB (FID)			177%		75 - 140 %	"				ZX	
BSD0125-10RE1 (Area1-F13-14)		Soil		Sampled: 04/10/09 11:30							A-01a
Gasoline Range Hydrocarbons	NWTPH-Gx	13.7	8.81	31.5	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 17:00	J	
Surrogate(s): 4-BFB (FID)			202%		75 - 140 %	"				ZX	

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-11 (Area1-F14-14)		Soil		Sampled: 04/10/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	17.8	15.7	56.2	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 04:13	J
Surrogate(s): 4-BFB (FID)			148%		75 - 140 %	"			"	ZX
BSD0125-11RE1 (Area1-F14-14)		Soil		Sampled: 04/10/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	10.1	10.1	36.2	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 12:05	J
Surrogate(s): 4-BFB (FID)			211%		75 - 140 %	"			"	ZX
BSD0125-12 (Area1-G11-14)		Soil		Sampled: 04/10/09 11:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	3.09	11.0	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 04:45	
Surrogate(s): 4-BFB (FID)			127%		75 - 140 %	"			"	
BSD0125-13 (Area1-G12-14)		Soil		Sampled: 04/10/09 12:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	306	21.8	77.9	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 05:17	
Surrogate(s): 4-BFB (FID)			168%		75 - 140 %	"			"	ZX
BSD0125-14 (Area1-G13-14)		Soil		Sampled: 04/10/09 12:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	155	20.4	72.8	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 05:49	
Surrogate(s): 4-BFB (FID)			154%		75 - 140 %	"			"	ZX
BSD0125-15 (Area1-G14-14)		Soil		Sampled: 04/10/09 12:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	20.8	17.7	63.1	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 07:24	J
Surrogate(s): 4-BFB (FID)			148%		75 - 140 %	"			"	ZX
BSD0125-15RE1 (Area1-G14-14)		Soil		Sampled: 04/10/09 12:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	11.2	39.9	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 12:37	
Surrogate(s): 4-BFB (FID)			213%		75 - 140 %	"			"	ZX
BSD0125-16 (Area1-J8-9)		Soil		Sampled: 04/10/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	21.8	77.7	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 07:57	
Surrogate(s): 4-BFB (FID)			182%		75 - 140 %	"			"	ZX

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0125-16RE1 (Area1-J8-9)		Soil			Sampled: 04/10/09 14:00						A-01a
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	12.5	44.6	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 17:32		
<i>Surrogate(s): 4-BFB (FID)</i>			216%		75 - 140 %	"			"	ZX	
BSD0125-17 (Area1-J9-9)		Soil			Sampled: 04/10/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	18.5	66.2	mg/kg dry	1x	9D10030	04/10/09 16:00	04/11/09 08:28		
<i>Surrogate(s): 4-BFB (FID)</i>			220%		75 - 140 %	"			"	ZX	
BSD0125-17RE1 (Area1-J9-9)		Soil			Sampled: 04/10/09 14:10						A-01a
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	11.6	41.6	mg/kg dry	1x	9D13021	04/13/09 09:00	04/13/09 18:04		
<i>Surrogate(s): 4-BFB (FID)</i>			213%		75 - 140 %	"			"	ZX	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-01 (Area1-H12-14)		Soil			Sampled: 04/10/09 09:15					
Kerosene	NWTPH-Dx	1010	----	47.8	mg/kg dry	1x	9D10034	04/10/09 16:52	04/10/09 22:11	A-01
<i>Surrogate(s): 2-FBP</i>			97.7%		54 - 148 %	"				"
<i>Octacosane</i>			72.6%		62 - 142 %	"				"
BSD0125-01RE1 (Area1-H12-14)		Soil			Sampled: 04/10/09 09:15					
Lube Oil	NWTPH-Dx	11200	----	1190	mg/kg dry	10x	9D10034	04/10/09 16:52	04/13/09 10:48	
Diesel Range Hydrocarbons	"	6290	----	478	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			75.5%		54 - 148 %	"				"
<i>Octacosane</i>			119%		62 - 142 %	"				"
BSD0125-02 (Area1-H13-14)		Soil			Sampled: 04/10/09 09:20					
Lube Oil	NWTPH-Dx	182	----	41.1	mg/kg dry	1x	9D10034	04/10/09 16:52	04/10/09 22:34	Q1
Kerosene	"	43.8	----	16.4	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	135	----	16.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			79.0%		54 - 148 %	"				"
<i>Octacosane</i>			91.0%		62 - 142 %	"				"
BSD0125-03 (Area1-H14-14)		Soil			Sampled: 04/10/09 09:30					
Kerosene	NWTPH-Dx	512	----	48.6	mg/kg dry	1x	9D10034	04/10/09 16:52	04/10/09 22:58	A-01
Diesel Range Hydrocarbons	"	3300	----	48.6	"	"	"	"	"	QP, Q6
<i>Surrogate(s): 2-FBP</i>			89.8%		54 - 148 %	"				"
<i>Octacosane</i>			99.6%		62 - 142 %	"				"
BSD0125-03RE1 (Area1-H14-14)		Soil			Sampled: 04/10/09 09:30					
Lube Oil	NWTPH-Dx	3780	----	608	mg/kg dry	5x	9D10034	04/10/09 16:52	04/13/09 11:10	
<i>Surrogate(s): 2-FBP</i>			79.3%		54 - 148 %	"				"
<i>Octacosane</i>			120%		62 - 142 %	"				"
BSD0125-04 (Area1-H15-14)		Soil			Sampled: 04/10/09 09:40					
Lube Oil	NWTPH-Dx	438	----	136	mg/kg dry	1x	9D10034	04/10/09 16:52	04/10/09 23:21	Q1
Kerosene	"	ND	----	54.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	191	----	54.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			98.0%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-05 (Area1-I13-14)		Soil			Sampled: 04/10/09 09:50					
Lube Oil	NWTPH-Dx	503	----	152	mg/kg dry	1x	9D10034	04/10/09 16:52	04/10/09 23:45	Q1
Kerosene	"	ND	----	60.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	315	----	60.8	"	"	"	"	"	Q6, QP
Surrogate(s): 2-FBP		96.9%		54 - 148 %	"					
Octacosane		109%		62 - 142 %	"					
BSD0125-06 (Area1-I14-14)		Soil			Sampled: 04/10/09 10:00					
Kerosene	NWTPH-Dx	614	----	58.6	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 01:43	A-01
Diesel Range Hydrocarbons	"	3840	----	58.6	"	"	"	"	"	Q6, QP
Surrogate(s): 2-FBP		89.6%		54 - 148 %	"					
Octacosane		91.5%		62 - 142 %	"					
BSD0125-06RE1 (Area1-I14-14)		Soil			Sampled: 04/10/09 10:00					
Lube Oil	NWTPH-Dx	6050	----	732	mg/kg dry	5x	9D10034	04/10/09 16:52	04/13/09 11:31	
Surrogate(s): 2-FBP		78.3%		54 - 148 %	"					
Octacosane		115%		62 - 142 %	"					
BSD0125-07 (Area1-I15-14)		Soil			Sampled: 04/10/09 10:10					
Kerosene	NWTPH-Dx	333	----	78.7	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 02:06	A-01
Diesel Range Hydrocarbons	"	2490	----	78.7	"	"	"	"	"	Q6
Surrogate(s): 2-FBP		95.6%		54 - 148 %	"					
Octacosane		102%		62 - 142 %	"					
BSD0125-07RE1 (Area1-I15-14)		Soil			Sampled: 04/10/09 10:10					
Lube Oil	NWTPH-Dx	4250	----	984	mg/kg dry	5x	9D10034	04/10/09 16:52	04/13/09 11:53	
Surrogate(s): 2-FBP		84.5%		54 - 148 %	"					
Octacosane		110%		62 - 142 %	"					
BSD0125-08 (Area1-F11-14)		Soil			Sampled: 04/10/09 11:10					
Kerosene	NWTPH-Dx	96.5	----	17.1	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 02:30	A-01
Diesel Range Hydrocarbons	"	535	----	17.1	"	"	"	"	"	Q6
Surrogate(s): 2-FBP		93.8%		54 - 148 %	"					
Octacosane		104%		62 - 142 %	"					

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-08RE1 (Area1-F11-14)		Soil		Sampled: 04/10/09 11:10						
Lube Oil	NWTPH-Dx	746	----	213	mg/kg dry	5x	9D10034	04/10/09 16:52	04/13/09 12:14	
<i>Surrogate(s): 2-FBP</i>			84.0%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"
BSD0125-09 (Area1-F12-14)		Soil		Sampled: 04/10/09 11:20						
Kerosene	NWTPH-Dx	995	----	51.3	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 02:53	A-01
<i>Surrogate(s): 2-FBP</i>			98.3%		54 - 148 %	"				"
<i>Octacosane</i>			55.1%		62 - 142 %	"				Z
BSD0125-09RE1 (Area1-F12-14)		Soil		Sampled: 04/10/09 11:20						
Lube Oil	NWTPH-Dx	23300	----	2560	mg/kg dry	20x	9D10034	04/10/09 16:52	04/13/09 12:36	
Diesel Range Hydrocarbons	"	13000	----	1030	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			70.4%		54 - 148 %	"				"
<i>Octacosane</i>			177%		62 - 142 %	"				ZX
BSD0125-10 (Area1-F13-14)		Soil		Sampled: 04/10/09 11:30						
Lube Oil	NWTPH-Dx	471	----	108	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 03:17	Q1
Kerosene	"	ND	----	43.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	538	----	43.3	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			93.2%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"
BSD0125-11 (Area1-F14-14)		Soil		Sampled: 04/10/09 11:40						
Lube Oil	NWTPH-Dx	271	----	125	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 03:41	Q1
Kerosene	"	ND	----	49.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	150	----	49.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			97.8%		54 - 148 %	"				"
<i>Octacosane</i>			108%		62 - 142 %	"				"
BSD0125-12 (Area1-G11-14)		Soil		Sampled: 04/10/09 11:50						
Lube Oil	NWTPH-Dx	52.6	----	38.7	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 04:04	Q1
Kerosene	"	ND	----	15.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	32.1	----	15.5	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			106%		54 - 148 %	"				"
<i>Octacosane</i>			118%		62 - 142 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-13 (Area1-G12-14)		Soil		Sampled: 04/10/09 12:00						
Kerosene	NWTPH-Dx	802	----	57.5	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 04:28	A-01
Diesel Range Hydrocarbons	"	5610	----	57.5	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			91.8%		54 - 148 %	"			"	
<i>Octacosane</i>			78.7%		62 - 142 %	"			"	
BSD0125-13RE1 (Area1-G12-14)		Soil		Sampled: 04/10/09 12:00						
Lube Oil	NWTPH-Dx	9450	----	1440	mg/kg dry	10x	9D10034	04/10/09 16:52	04/13/09 12:58	
<i>Surrogate(s): 2-FBP</i>			73.6%		54 - 148 %	"			"	
<i>Octacosane</i>			119%		62 - 142 %	"			"	
BSD0125-14 (Area1-G13-14)		Soil		Sampled: 04/10/09 12:10						
Lube Oil	NWTPH-Dx	1640	----	158	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 04:51	Q1
Kerosene	"	161	----	63.3	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	1130	----	63.3	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			86.8%		54 - 148 %	"			"	
<i>Octacosane</i>			101%		62 - 142 %	"			"	
BSD0125-15 (Area1-G14-14)		Soil		Sampled: 04/10/09 12:20						
Lube Oil	NWTPH-Dx	208	----	134	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 05:15	Q1
Kerosene	"	ND	----	53.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	385	----	53.4	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			97.3%		54 - 148 %	"			"	
<i>Octacosane</i>			108%		62 - 142 %	"			"	
BSD0125-16 (Area1-J8-9)		Soil		Sampled: 04/10/09 14:00						
Lube Oil	NWTPH-Dx	ND	----	146	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 08:46	
Kerosene	"	ND	----	58.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	58.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.1%		54 - 148 %	"			"	
<i>Octacosane</i>			108%		62 - 142 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-17 (Area1-J9-9)		Soil			Sampled: 04/10/09 14:10					
Lube Oil	NWTPH-Dx	ND	----	140	mg/kg dry	1x	9D10034	04/10/09 16:52	04/11/09 09:10	
Kerosene	"	ND	----	56.0	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	56.0	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>			93.8%		54 - 148 %	"				"
<i>Octacosane</i>			113%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSD0125-01 (Area1-H12-14)

Soil

Sampled: 04/10/09 09:15

Arsenic	EPA 6020	17.6	----	1.61	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 08:38	
Barium	"	78.2	----	16.1	"	"	"	"	"	
Cadmium	"	ND	----	1.61	"	"	"	"	"	
Chromium	"	16.1	----	1.61	"	"	"	"	"	
Selenium	"	ND	----	3.22	"	"	"	"	"	
Silver	"	ND	----	1.61	"	"	"	"	"	

BSD0125-01RE1 (Area1-H12-14)

Soil

Sampled: 04/10/09 09:15

Lead	EPA 6020	1740	----	16.1	mg/kg dry	10x	9D13002	04/10/09 15:43	04/13/09 10:01	
------	----------	------	------	------	-----------	-----	---------	----------------	----------------	--

BSD0125-02 (Area1-H13-14)

Soil

Sampled: 04/10/09 09:20

Arsenic	EPA 6020	6.63	----	0.653	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 09:04	
Barium	"	121	----	6.53	"	"	"	"	"	
Cadmium	"	ND	----	0.653	"	"	"	"	"	
Chromium	"	34.9	----	0.653	"	"	"	"	"	
Lead	"	87.5	----	0.653	"	"	"	"	"	
Selenium	"	ND	----	1.31	"	"	"	"	"	
Silver	"	ND	----	0.653	"	"	"	"	"	

BSD0125-03 (Area1-H14-14)

Soil

Sampled: 04/10/09 09:30

Arsenic	EPA 6020	3.32	----	1.61	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 09:10	
Barium	"	22.0	----	16.1	"	"	"	"	"	
Cadmium	"	ND	----	1.61	"	"	"	"	"	
Chromium	"	4.16	----	1.61	"	"	"	"	"	
Selenium	"	ND	----	3.21	"	"	"	"	"	
Silver	"	ND	----	1.61	"	"	"	"	"	

BSD0125-03RE1 (Area1-H14-14)

Soil

Sampled: 04/10/09 09:30

Lead	EPA 6020	745	----	3.21	mg/kg dry	2x	9D13002	04/10/09 15:43	04/13/09 11:10	
------	----------	-----	------	------	-----------	----	---------	----------------	----------------	--

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-04 (Area1-H15-14)		Soil			Sampled: 04/10/09 09:40					
Arsenic	EPA 6020	4.47	----	1.31	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 09:16	
Barium	"	48.8	----	13.1	"	"	"	"	"	"
Cadmium	"	ND	----	1.31	"	"	"	"	"	"
Chromium	"	11.3	----	1.31	"	"	"	"	"	"
Lead	"	196	----	1.31	"	"	"	"	"	"
Selenium	"	ND	----	2.63	"	"	"	"	"	"
Silver	"	ND	----	1.31	"	"	"	"	"	"
BSD0125-05 (Area1-I13-14)		Soil			Sampled: 04/10/09 09:50					
Arsenic	EPA 6020	2.72	----	2.19	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 09:23	
Barium	"	39.0	----	21.9	"	"	"	"	"	"
Cadmium	"	ND	----	2.19	"	"	"	"	"	"
Chromium	"	5.35	----	2.19	"	"	"	"	"	"
Lead	"	76.3	----	2.19	"	"	"	"	"	"
Selenium	"	ND	----	4.38	"	"	"	"	"	"
Silver	"	ND	----	2.19	"	"	"	"	"	"
BSD0125-06 (Area1-I14-14)		Soil			Sampled: 04/10/09 10:00					
Arsenic	EPA 6020	ND	----	2.14	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 09:29	
Barium	"	ND	----	21.4	"	"	"	"	"	"
Cadmium	"	ND	----	2.14	"	"	"	"	"	"
Chromium	"	ND	----	2.14	"	"	"	"	"	"
Lead	"	566	----	2.14	"	"	"	"	"	"
Selenium	"	ND	----	4.27	"	"	"	"	"	"
Silver	"	ND	----	2.14	"	"	"	"	"	"
BSD0125-07 (Area1-I15-14)		Soil			Sampled: 04/10/09 10:10					
Arsenic	EPA 6020	7.02	----	1.85	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 09:35	
Barium	"	46.5	----	18.5	"	"	"	"	"	"
Cadmium	"	ND	----	1.85	"	"	"	"	"	"
Chromium	"	8.69	----	1.85	"	"	"	"	"	"
Selenium	"	ND	----	3.70	"	"	"	"	"	"
Silver	"	ND	----	1.85	"	"	"	"	"	"

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-07RE1 (Area1-I15-14)		Soil		Sampled: 04/10/09 10:10						
Lead	EPA 6020	1800	----	9.26	mg/kg dry	5x	9D13002	04/10/09 15:43	04/13/09 11:23	
BSD0125-08 (Area1-F11-14)		Soil		Sampled: 04/10/09 11:10						
Arsenic	EPA 6020	5.79	----	0.429	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 09:42	
Barium	"	114	----	4.29	"	"	"	"	"	
Cadmium	"	0.531	----	0.429	"	"	"	"	"	
Chromium	"	34.2	----	0.429	"	"	"	"	"	
Selenium	"	ND	----	0.857	"	"	"	"	"	
Silver	"	ND	----	0.429	"	"	"	"	"	
BSD0125-08RE1 (Area1-F11-14)		Soil		Sampled: 04/10/09 11:10						
Lead	EPA 6020	357	----	2.14	mg/kg dry	5x	9D13002	04/10/09 15:43	04/13/09 11:48	
BSD0125-09 (Area1-F12-14)		Soil		Sampled: 04/10/09 11:20						
Arsenic	EPA 6020	2.29	----	1.46	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 09:48	
Barium	"	29.3	----	14.6	"	"	"	"	"	
Cadmium	"	ND	----	1.46	"	"	"	"	"	
Chromium	"	2.61	----	1.46	"	"	"	"	"	
Selenium	"	ND	----	2.92	"	"	"	"	"	
Silver	"	ND	----	1.46	"	"	"	"	"	
BSD0125-09RE1 (Area1-F12-14)		Soil		Sampled: 04/10/09 11:20						
Lead	EPA 6020	1590	----	14.6	mg/kg dry	10x	9D13002	04/10/09 15:43	04/13/09 11:54	
BSD0125-10 (Area1-F13-14)		Soil		Sampled: 04/10/09 11:30						
Arsenic	EPA 6020	ND	----	1.24	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 09:54	
Barium	"	13.6	----	12.4	"	"	"	"	"	
Cadmium	"	ND	----	1.24	"	"	"	"	"	
Chromium	"	1.53	----	1.24	"	"	"	"	"	
Lead	"	54.0	----	1.24	"	"	"	"	"	
Selenium	"	ND	----	2.49	"	"	"	"	"	
Silver	"	ND	----	1.24	"	"	"	"	"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-11 (Area1-F14-14)		Soil			Sampled: 04/10/09 11:40					
Arsenic	EPA 6020	ND	----	1.39	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 10:26	
Barium	"	30.8	----	13.9	"	"	"	"	"	
Cadmium	"	ND	----	1.39	"	"	"	"	"	
Chromium	"	1.53	----	1.39	"	"	"	"	"	
Lead	"	41.0	----	1.39	"	"	"	"	"	
Selenium	"	ND	----	2.77	"	"	"	"	"	
Silver	"	ND	----	1.39	"	"	"	"	"	
BSD0125-12 (Area1-G11-14)		Soil			Sampled: 04/10/09 11:50					
Arsenic	EPA 6020	2.02	----	0.329	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 10:32	
Barium	"	49.1	----	3.29	"	"	"	"	"	
Cadmium	"	ND	----	0.329	"	"	"	"	"	
Chromium	"	20.0	----	0.329	"	"	"	"	"	
Lead	"	12.7	----	0.329	"	"	"	"	"	
Selenium	"	ND	----	0.658	"	"	"	"	"	
Silver	"	ND	----	0.329	"	"	"	"	"	
BSD0125-13 (Area1-G12-14)		Soil			Sampled: 04/10/09 12:00					
Arsenic	EPA 6020	3.72	----	1.83	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 10:38	
Barium	"	26.3	----	18.3	"	"	"	"	"	
Cadmium	"	ND	----	1.83	"	"	"	"	"	
Chromium	"	2.61	----	1.83	"	"	"	"	"	
Selenium	"	ND	----	3.65	"	"	"	"	"	
Silver	"	ND	----	1.83	"	"	"	"	"	
BSD0125-13RE1 (Area1-G12-14)		Soil			Sampled: 04/10/09 12:00					
Lead	EPA 6020	709	----	3.65	mg/kg dry	2x	9D13002	04/10/09 15:43	04/13/09 12:01	
BSD0125-14 (Area1-G13-14)		Soil			Sampled: 04/10/09 12:10					
Arsenic	EPA 6020	4.29	----	1.35	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 10:45	
Barium	"	42.6	----	13.5	"	"	"	"	"	
Cadmium	"	ND	----	1.35	"	"	"	"	"	
Chromium	"	6.37	----	1.35	"	"	"	"	"	
Lead	"	251	----	1.35	"	"	"	"	"	
Selenium	"	ND	----	2.71	"	"	"	"	"	
Silver	"	ND	----	1.35	"	"	"	"	"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-15 (Area1-G14-14)		Soil		Sampled: 04/10/09 12:20						
Arsenic	EPA 6020	ND	----	1.30	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 10:51	
Barium	"	25.4	----	13.0	"	"	"	"	"	"
Cadmium	"	ND	----	1.30	"	"	"	"	"	"
Chromium	"	1.78	----	1.30	"	"	"	"	"	"
Lead	"	17.3	----	1.30	"	"	"	"	"	"
Selenium	"	ND	----	2.59	"	"	"	"	"	"
Silver	"	ND	----	1.30	"	"	"	"	"	"
BSD0125-16 (Area1-J8-9)		Soil		Sampled: 04/10/09 14:00						
Arsenic	EPA 6020	ND	----	1.87	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 10:57	
Barium	"	19.5	----	18.7	"	"	"	"	"	"
Cadmium	"	ND	----	1.87	"	"	"	"	"	"
Chromium	"	2.73	----	1.87	"	"	"	"	"	"
Lead	"	9.49	----	1.87	"	"	"	"	"	"
Selenium	"	ND	----	3.74	"	"	"	"	"	"
Silver	"	ND	----	1.87	"	"	"	"	"	"
BSD0125-17 (Area1-J9-9)		Soil		Sampled: 04/10/09 14:10						
Arsenic	EPA 6020	1.57	----	1.48	mg/kg dry	1x	9D13002	04/10/09 15:43	04/13/09 11:04	
Barium	"	21.4	----	14.8	"	"	"	"	"	"
Cadmium	"	ND	----	1.48	"	"	"	"	"	"
Chromium	"	2.32	----	1.48	"	"	"	"	"	"
Lead	"	17.4	----	1.48	"	"	"	"	"	"
Selenium	"	ND	----	2.96	"	"	"	"	"	"
Silver	"	ND	----	1.48	"	"	"	"	"	"

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-01 (Area1-H12-14)		Soil								Sampled: 04/10/09 09:15
Lead	EPA 6010B	10.3	----	1.00	mg/l	1x	9D15012	04/15/09 09:32	04/15/09 13:58	
BSD0125-03 (Area1-H14-14)		Soil								Sampled: 04/10/09 09:30
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:11	
BSD0125-04 (Area1-H15-14)		Soil								Sampled: 04/10/09 09:40
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:15	
BSD0125-06 (Area1-I14-14)		Soil								Sampled: 04/10/09 10:00
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:29	
BSD0125-07 (Area1-I15-14)		Soil								Sampled: 04/10/09 10:10
Lead	EPA 6010B	1.94	----	1.00	mg/l	1x	9D15012	04/15/09 09:32	04/15/09 14:02	
BSD0125-08 (Area1-F11-14)		Soil								Sampled: 04/10/09 11:10
Lead	EPA 6010B	3.23	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:33	
BSD0125-09 (Area1-F12-14)		Soil								Sampled: 04/10/09 11:20
Lead	EPA 6010B	1.17	----	1.00	mg/l	1x	9D15012	04/15/09 09:32	04/15/09 14:05	
BSD0125-13 (Area1-G12-14)		Soil								Sampled: 04/10/09 12:00
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:36	
BSD0125-14 (Area1-G13-14)		Soil								Sampled: 04/10/09 12:10
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:40	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-01RE1 (Area1-H12-14)		Soil		Sampled: 04/10/09 09:15						
Benzene	EPA 8260B	7.95	----	4.22	ug/kg dry	1x	9D13056	04/13/09 20:07	04/13/09 20:59	
Ethylbenzene	"	ND	----	11.2	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	2.81	"	"	"	"	"	
Naphthalene	"	ND	----	28.1	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			105%		70 - 140 %	"			"	
<i>Toluene-d8</i>			125%		70 - 130 %	"			"	I2
<i>4-BFB</i>			132%		70 - 130 %	"			"	I2, ZX
BSD0125-02RE1 (Area1-H13-14)		Soil		Sampled: 04/10/09 09:20						
Benzene	EPA 8260B	62.8	----	1.50	ug/kg dry	1x	9D13056	04/13/09 20:07	04/14/09 02:55	
Methyl tert-butyl ether	"	ND	----	0.998	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			152%		70 - 140 %	"			"	ZX
<i>Toluene-d8</i>			134%		70 - 130 %	"			"	ZX, I2
<i>4-BFB</i>			147%		70 - 130 %	"			"	I2, ZX
BSD0125-03RE1 (Area1-H14-14)		Soil		Sampled: 04/10/09 09:30						
Methyl tert-butyl ether	EPA 8260B	ND	----	3.68	ug/kg dry	1x	9D13056	04/13/09 20:07	04/13/09 21:25	I2
Naphthalene	"	ND	----	36.8	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			128%		70 - 140 %	"			"	I2
<i>Toluene-d8</i>			127%		70 - 130 %	"			"	I2
<i>4-BFB</i>			131%		70 - 130 %	"			"	ZX, I2
BSD0125-04RE1 (Area1-H15-14)		Soil		Sampled: 04/10/09 09:40						
Benzene	EPA 8260B	114	----	5.55	ug/kg dry	1x	9D13056	04/13/09 20:07	04/13/09 21:50	
Methyl tert-butyl ether	"	ND	----	3.70	"	"	"	"	"	
Naphthalene	"	ND	----	37.0	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			128%		70 - 140 %	"			"	
<i>Toluene-d8</i>			119%		70 - 130 %	"			"	I2
<i>4-BFB</i>			123%		70 - 130 %	"			"	I2

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-05RE1 (Area1-I13-14)		Soil		Sampled: 04/10/09 09:50						
Benzene	EPA 8260B	56.0	----	7.14	ug/kg dry	1x	9D13056	04/13/09 20:07	04/14/09 03:20	
Methyl tert-butyl ether	"	ND	----	4.76	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				121%	70 - 140 %	"				
<i>Toluene-d8</i>				137%	70 - 130 %	"				ZX, I2
<i>4-BFB</i>				132%	70 - 130 %	"				ZX, I2
BSD0125-06RE1 (Area1-I14-14)		Soil		Sampled: 04/10/09 10:00						
Benzene	EPA 8260B	12.8	----	5.73	ug/kg dry	1x	9D13056	04/13/09 20:07	04/13/09 22:15	
Methyl tert-butyl ether	"	ND	----	3.82	"	"	"	"	"	
Naphthalene	"	ND	----	38.2	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				135%	70 - 140 %	"				
<i>Toluene-d8</i>				126%	70 - 130 %	"				I2
<i>4-BFB</i>				136%	70 - 130 %	"				ZX, I2
BSD0125-07RE1 (Area1-I15-14)		Soil		Sampled: 04/10/09 10:10						
Benzene	EPA 8260B	ND	----	8.52	ug/kg dry	1x	9D13056	04/13/09 20:07	04/13/09 22:41	
Methyl tert-butyl ether	"	ND	----	5.68	"	"	"	"	"	
Naphthalene	"	ND	----	56.8	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				129%	70 - 140 %	"				
<i>Toluene-d8</i>				123%	70 - 130 %	"				I2
<i>4-BFB</i>				137%	70 - 130 %	"				ZI, I2
BSD0125-08RE1 (Area1-F11-14)		Soil		Sampled: 04/10/09 11:10						
Benzene	EPA 8260B	20.6	----	1.30	ug/kg dry	1x	9D13056	04/13/09 20:07	04/13/09 23:06	
Ethylbenzene	"	36.4	----	3.47	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.867	"	"	"	"	"	
Naphthalene	"	11.1	----	8.67	"	"	"	"	"	
Toluene	"	33.0	----	1.30	"	"	"	"	"	
o-Xylene	"	28.0	----	4.34	"	"	"	"	"	
m,p-Xylene	"	89.7	----	4.34	"	"	"	"	"	
Total Xylenes	"	118	----	8.67	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				131%	70 - 140 %	"				
<i>Toluene-d8</i>				104%	70 - 130 %	"				
<i>4-BFB</i>				111%	70 - 130 %	"				

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-09RE1 (Area1-F12-14)		Soil		Sampled: 04/10/09 11:20						
Benzene	EPA 8260B	12.1	----	5.50	ug/kg dry	1x	9D13056	04/13/09 20:07	04/13/09 23:32	
Methyl tert-butyl ether	"	ND	----	3.67	"	"	"	"	"	
Naphthalene	"	ND	----	36.7	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			128%		70 - 140 %	"			"	
<i>Toluene-d8</i>			121%		70 - 130 %	"			"	I2
<i>4-BFB</i>			133%		70 - 130 %	"			"	ZX, I2
BSD0125-10RE1 (Area1-F13-14)		Soil		Sampled: 04/10/09 11:30						
Benzene	EPA 8260B	84.4	----	4.25	ug/kg dry	1x	9D13056	04/13/09 20:07	04/13/09 23:57	
Methyl tert-butyl ether	"	ND	----	2.83	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			118%		70 - 140 %	"			"	
<i>Toluene-d8</i>			129%		70 - 130 %	"			"	I2
<i>4-BFB</i>			135%		70 - 130 %	"			"	ZX, I2
BSD0125-11RE1 (Area1-F14-14)		Soil		Sampled: 04/10/09 11:40						
Methyl tert-butyl ether	EPA 8260B	ND	----	2.70	ug/kg dry	1x	9D13056	04/13/09 20:07	04/14/09 00:22	
Naphthalene	"	ND	----	27.0	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			114%		70 - 140 %	"			"	
<i>Toluene-d8</i>			136%		70 - 130 %	"			"	ZI, I2
<i>4-BFB</i>			136%		70 - 130 %	"			"	ZI, I2
BSD0125-12RE1 (Area1-G11-14)		Soil		Sampled: 04/10/09 11:50						
Benzene	EPA 8260B	ND	----	1.01	ug/kg dry	1x	9D13056	04/13/09 20:07	04/14/09 00:48	
Methyl tert-butyl ether	"	ND	----	0.674	"	"	"	"	"	
Naphthalene	"	ND	----	6.74	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			130%		70 - 140 %	"			"	
<i>Toluene-d8</i>			113%		70 - 130 %	"			"	I2
<i>4-BFB</i>			120%		70 - 130 %	"			"	I2
BSD0125-13RE1 (Area1-G12-14)		Soil		Sampled: 04/10/09 12:00						
Methyl tert-butyl ether	EPA 8260B	ND	----	4.13	ug/kg dry	1x	9D13056	04/13/09 20:07	04/14/09 01:13	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			138%		70 - 140 %	"			"	I2
<i>Toluene-d8</i>			142%		70 - 130 %	"			"	ZX, I2
<i>4-BFB</i>			134%		70 - 130 %	"			"	ZX, I2

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-14RE1 (Area1-G13-14)		Soil		Sampled: 04/10/09 12:10						
Benzene	EPA 8260B	144	----	6.37	ug/kg dry	1x	9D13056	04/13/09 20:07	04/14/09 03:46	
Ethylbenzene	"	565	----	17.0	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	4.24	"	"	"	"	"	
Total Xylenes	"	2420	----	42.4	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>129%</i>	<i>70 - 140 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>Toluene-d8</i>	<i>125%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>4-BFB</i>	<i>131%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	ZX, I2

BSD0125-15RE1 (Area1-G14-14)		Soil		Sampled: 04/10/09 12:20						
Benzene	EPA 8260B	ND	----	6.86	ug/kg dry	1x	9D13056	04/13/09 20:07	04/14/09 01:39	
Ethylbenzene	"	ND	----	18.3	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	4.57	"	"	"	"	"	
Naphthalene	"	ND	----	45.7	"	"	"	"	"	I2
Toluene	"	ND	----	6.86	"	"	"	"	"	I2

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>117%</i>	<i>70 - 140 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>Toluene-d8</i>	<i>127%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	I2
	<i>4-BFB</i>	<i>133%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	ZX, I2

BSD0125-16RE1 (Area1-J8-9)		Soil		Sampled: 04/10/09 14:00						
Benzene	EPA 8260B	ND	----	6.36	ug/kg dry	1x	9D13056	04/13/09 20:07	04/14/09 02:04	
Ethylbenzene	"	ND	----	17.0	"	"	"	"	"	I2
Methyl tert-butyl ether	"	7.29	----	4.24	"	"	"	"	"	
Naphthalene	"	ND	----	42.4	"	"	"	"	"	I2
Toluene	"	ND	----	6.36	"	"	"	"	"	I2
o-Xylene	"	ND	----	21.2	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	21.2	"	"	"	"	"	I2
Total Xylenes	"	ND	----	42.4	"	"	"	"	"	I2

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>118%</i>	<i>70 - 140 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
	<i>Toluene-d8</i>	<i>125%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	I2
	<i>4-BFB</i>	<i>124%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	I2

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-17RE1 (Area1-J9-9)		Soil			Sampled: 04/10/09 14:10					
Benzene	EPA 8260B	ND	----	5.83	ug/kg dry	1x	9D13056	04/13/09 20:07	04/14/09 02:29	
Ethylbenzene	"	31.5	----	15.6	"	"	"	"	"	
Methyl tert-butyl ether	"	4.00	----	3.89	"	"	"	"	"	
Naphthalene	"	ND	----	38.9	"	"	"	"	"	12
Toluene	"	ND	----	5.83	"	"	"	"	"	
o-Xylene	"	ND	----	19.4	"	"	"	"	"	
m,p-Xylene	"	ND	----	19.4	"	"	"	"	"	
Total Xylenes	"	ND	----	38.9	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>116%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>123%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>125%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSD0125-01 (Area1-H12-14)		Soil			Sampled: 04/10/09 09:15					
Toluene	EPA 8260B	ND	0.103	1.03	mg/kg dry	1x	9D10025	04/10/09 16:00	04/10/09 19:22	
o-Xylene	"	ND	0.175	1.03	"	"	"	"	"	"
m,p-Xylene	"	ND	0.216	2.06	"	"	"	"	"	"
Xylenes (total)	"	ND	0.319	3.08	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			88.3%		75 - 125 %	"				"
<i>Toluene-d8</i>			95.1%		75 - 125 %	"				"
<i>4-BFB</i>			99.8%		75 - 125 %	"				"

BSD0125-02 (Area1-H13-14)		Soil			Sampled: 04/10/09 09:20					
Ethylbenzene	EPA 8260B	1.96	0.0197	0.164	mg/kg dry	1x	9D10025	04/10/09 16:00	04/10/09 19:53	
Naphthalene	"	ND	1.81	3.29	"	"	"	"	"	"
Toluene	"	0.177	0.0164	0.164	"	"	"	"	"	"
o-Xylene	"	2.49	0.0279	0.164	"	"	"	"	"	"
m,p-Xylene	"	7.15	0.0345	0.329	"	"	"	"	"	"
Xylenes (total)	"	9.64	0.0509	0.493	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			91.0%		75 - 125 %	"				"
<i>Toluene-d8</i>			92.4%		75 - 125 %	"				"
<i>4-BFB</i>			92.3%		75 - 125 %	"				"

BSD0125-03 (Area1-H14-14)		Soil			Sampled: 04/10/09 09:30					
Benzene	EPA 8260B	ND	0.126	0.251	mg/kg dry	1x	9D10025	04/10/09 16:00	04/10/09 20:24	
Ethylbenzene	"	ND	0.151	1.26	"	"	"	"	"	"
Toluene	"	ND	0.126	1.26	"	"	"	"	"	"
o-Xylene	"	ND	0.213	1.26	"	"	"	"	"	"
m,p-Xylene	"	ND	0.264	2.51	"	"	"	"	"	"
Xylenes (total)	"	ND	0.389	3.77	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			90.2%		75 - 125 %	"				"
<i>Toluene-d8</i>			92.0%		75 - 125 %	"				"
<i>4-BFB</i>			99.2%		75 - 125 %	"				"

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Kate Haney

Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-04 (Area1-H15-14)		Soil		Sampled: 04/10/09 09:40						
Ethylbenzene	EPA 8260B	0.168	0.144	1.20	mg/kg dry	1x	9D10025	04/10/09 16:00	04/10/09 20:55	J
Toluene	"	ND	0.120	1.20	"	"	"	"	"	
o-Xylene	"	0.276	0.204	1.20	"	"	"	"	"	J
m,p-Xylene	"	0.720	0.252	2.40	"	"	"	"	"	J
Xylenes (total)	"	0.996	0.372	3.60	"	"	"	"	"	J

Surrogate(s):	1,2-DCA-d4	91.2%	75 - 125 %	"	"
	Toluene-d8	92.6%	75 - 125 %	"	"
	4-BFB	97.8%	75 - 125 %	"	"

BSD0125-05 (Area1-I13-14)		Soil		Sampled: 04/10/09 09:50						
Ethylbenzene	EPA 8260B	0.859	0.191	1.59	mg/kg dry	1x	9D10025	04/10/09 16:00	04/10/09 21:26	J
Naphthalene	"	ND	17.5	31.8	"	"	"	"	"	
Toluene	"	ND	0.159	1.59	"	"	"	"	"	
o-Xylene	"	0.875	0.270	1.59	"	"	"	"	"	J
m,p-Xylene	"	2.29	0.334	3.18	"	"	"	"	"	J
Xylenes (total)	"	3.17	0.493	4.77	"	"	"	"	"	J

Surrogate(s):	1,2-DCA-d4	94.3%	75 - 125 %	"	"
	Toluene-d8	92.0%	75 - 125 %	"	"
	4-BFB	96.6%	75 - 125 %	"	"

BSD0125-06 (Area1-I14-14)		Soil		Sampled: 04/10/09 10:00						
Ethylbenzene	EPA 8260B	ND	0.163	1.36	mg/kg dry	1x	9D10025	04/10/09 16:00	04/10/09 21:57	
Toluene	"	ND	0.136	1.36	"	"	"	"	"	
o-Xylene	"	ND	0.231	1.36	"	"	"	"	"	
m,p-Xylene	"	ND	0.286	2.72	"	"	"	"	"	
Xylenes (total)	"	ND	0.422	4.08	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	95.2%	75 - 125 %	"	"
	Toluene-d8	92.6%	75 - 125 %	"	"
	4-BFB	97.4%	75 - 125 %	"	"

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Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSD0125-07 (Area1-I15-14)		Soil			Sampled: 04/10/09 10:10					
Ethylbenzene	EPA 8260B	ND	0.219	1.83	mg/kg dry	1x	9D10025	04/10/09 16:00	04/10/09 22:28	
Toluene	"	ND	0.183	1.83	"	"	"	"	"	
o-Xylene	"	ND	0.311	1.83	"	"	"	"	"	
m,p-Xylene	"	ND	0.384	3.65	"	"	"	"	"	
Xylenes (total)	"	ND	0.566	5.48	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			95.8%		75 - 125 %	"				"
Toluene-d8			90.4%		75 - 125 %	"				"
4-BFB			97.8%		75 - 125 %	"				"

BSD0125-08 (Area1-F11-14)		Soil			Sampled: 04/10/09 11:10					
Benzene	EPA 8260B	0.0791	0.0226	0.0452	mg/kg dry	1x	9D10025	04/10/09 16:00	04/10/09 22:59	
Surrogate(s): 1,2-DCA-d4			95.8%		75 - 125 %	"				"
Toluene-d8			91.2%		75 - 125 %	"				"
4-BFB			98.4%		75 - 125 %	"				"

BSD0125-09 (Area1-F12-14)		Soil			Sampled: 04/10/09 11:20					
Ethylbenzene	EPA 8260B	0.201	0.151	1.26	mg/kg dry	1x	9D10025	04/10/09 16:00	04/10/09 23:29	J
Toluene	"	ND	0.126	1.26	"	"	"	"	"	
o-Xylene	"	ND	0.214	1.26	"	"	"	"	"	
m,p-Xylene	"	0.276	0.264	2.51	"	"	"	"	"	J
Xylenes (total)	"	ND	0.389	3.77	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			95.6%		75 - 125 %	"				"
Toluene-d8			93.1%		75 - 125 %	"				"
4-BFB			97.1%		75 - 125 %	"				"

BSD0125-10 (Area1-F13-14)		Soil			Sampled: 04/10/09 11:30					
Ethylbenzene	EPA 8260B	ND	0.118	0.987	mg/kg dry	1x	9D10025	04/10/09 16:00	04/11/09 00:00	
Naphthalene	"	ND	10.9	19.7	"	"	"	"	"	
Toluene	"	ND	0.0987	0.987	"	"	"	"	"	
o-Xylene	"	ND	0.168	0.987	"	"	"	"	"	
m,p-Xylene	"	0.345	0.207	1.97	"	"	"	"	"	J
Xylenes (total)	"	0.474	0.306	2.96	"	"	"	"	"	J
Surrogate(s): 1,2-DCA-d4			95.4%		75 - 125 %	"				"
Toluene-d8			91.9%		75 - 125 %	"				"
4-BFB			95.4%		75 - 125 %	"				"

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-11 (Area1-F14-14)		Soil		Sampled: 04/10/09 11:40						
Benzene	EPA 8260B	ND	0.112	0.225	mg/kg dry	1x	9D10025	04/10/09 16:00	04/11/09 00:31	
Ethylbenzene	"	ND	0.135	1.12	"	"	"	"	"	
Toluene	"	ND	0.112	1.12	"	"	"	"	"	
o-Xylene	"	ND	0.191	1.12	"	"	"	"	"	
m,p-Xylene	"	0.371	0.236	2.25	"	"	"	"	"	J
Xylenes (total)	"	0.371	0.348	3.37	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			95.4%		75 - 125 %	"			"	
<i>Toluene-d8</i>			91.4%		75 - 125 %	"			"	
<i>4-BFB</i>			96.8%		75 - 125 %	"			"	

BSD0125-12 (Area1-G11-14)		Soil		Sampled: 04/10/09 11:50						
Ethylbenzene	EPA 8260B	ND	0.0265	0.221	mg/kg dry	1x	9D10025	04/10/09 16:00	04/11/09 01:02	
Toluene	"	ND	0.0221	0.221	"	"	"	"	"	
o-Xylene	"	ND	0.0375	0.221	"	"	"	"	"	
m,p-Xylene	"	ND	0.0463	0.441	"	"	"	"	"	
Xylenes (total)	"	ND	0.0684	0.662	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			94.4%		75 - 125 %	"			"	
<i>Toluene-d8</i>			89.5%		75 - 125 %	"			"	
<i>4-BFB</i>			96.7%		75 - 125 %	"			"	

BSD0125-13 (Area1-G12-14)		Soil		Sampled: 04/10/09 12:00						
Benzene	EPA 8260B	ND	0.156	0.312	mg/kg dry	1x	9D10025	04/10/09 16:00	04/11/09 01:33	
Ethylbenzene	"	ND	0.187	1.56	"	"	"	"	"	
Naphthalene	"	ND	17.1	31.2	"	"	"	"	"	
Toluene	"	ND	0.156	1.56	"	"	"	"	"	
o-Xylene	"	ND	0.265	1.56	"	"	"	"	"	
m,p-Xylene	"	ND	0.327	3.12	"	"	"	"	"	
Xylenes (total)	"	ND	0.483	4.67	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			96.8%		75 - 125 %	"			"	
<i>Toluene-d8</i>			90.2%		75 - 125 %	"			"	
<i>4-BFB</i>			96.4%		75 - 125 %	"			"	

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-14 (Area1-G13-14)		Soil			Sampled: 04/10/09 12:10					
Naphthalene	EPA 8260B	ND	16.0	29.1	mg/kg dry	1x	9D10025	04/10/09 16:00	04/11/09 02:04	
o-Xylene	"	1.00	0.247	1.46	"	"	"	"	"	J
m,p-Xylene	"	2.66	0.306	2.91	"	"	"	"	"	J
Xylenes (total)	"	3.67	0.451	4.37	"	"	"	"	"	J

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>94.7%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>90.4%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>97.0%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

BSD0125-15 (Area1-G14-14)		Soil			Sampled: 04/10/09 12:20					
o-Xylene	EPA 8260B	ND	0.215	1.26	mg/kg dry	1x	9D10025	04/10/09 16:00	04/11/09 02:35	
m,p-Xylene	"	ND	0.265	2.53	"	"	"	"	"	
Xylenes (total)	"	ND	0.391	3.79	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>97.2%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>90.2%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>	<i>97.4%</i>	<i>75 - 125 %</i>	<i>"</i>	<i>"</i>

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Physical Parameters by APHA/ASTM/EPA Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-01 (Area1-H12-14)		Soil								Sampled: 04/10/09 09:15
Dry Weight	BSOPSPLO03R0 8	20.9	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-02 (Area1-H13-14)		Soil								Sampled: 04/10/09 09:20
Dry Weight	BSOPSPLO03R0 8	59.8	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-03 (Area1-H14-14)		Soil								Sampled: 04/10/09 09:30
Dry Weight	BSOPSPLO03R0 8	20.2	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-04 (Area1-H15-14)		Soil								Sampled: 04/10/09 09:40
Dry Weight	BSOPSPLO03R0 8	18.3	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-05 (Area1-I13-14)		Soil								Sampled: 04/10/09 09:50
Dry Weight	BSOPSPLO03R0 8	16.2	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-06 (Area1-I14-14)		Soil								Sampled: 04/10/09 10:00
Dry Weight	BSOPSPLO03R0 8	17.0	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-07 (Area1-I15-14)		Soil								Sampled: 04/10/09 10:10
Dry Weight	BSOPSPLO03R0 8	12.5	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-08 (Area1-F11-14)		Soil								Sampled: 04/10/09 11:10
Dry Weight	BSOPSPLO03R0 8	58.0	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-09 (Area1-F12-14)		Soil								Sampled: 04/10/09 11:20
Dry Weight	BSOPSPLO03R0 8	19.2	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-10 (Area1-F13-14)		Soil								Sampled: 04/10/09 11:30
Dry Weight	BSOPSPLO03R0 8	22.8	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-11 (Area1-F14-14)		Soil								Sampled: 04/10/09 11:40

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Physical Parameters by APHA/ASTM/EPA Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0125-11 (Area1-F14-14)		Soil								Sampled: 04/10/09 11:40
Dry Weight	BSOPSP003R0 8	20.0	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-12 (Area1-G11-14)		Soil								Sampled: 04/10/09 11:50
Dry Weight	BSOPSP003R0 8	64.1	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-13 (Area1-G12-14)		Soil								Sampled: 04/10/09 12:00
Dry Weight	BSOPSP003R0 8	17.1	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-14 (Area1-G13-14)		Soil								Sampled: 04/10/09 12:10
Dry Weight	BSOPSP003R0 8	15.8	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-15 (Area1-G14-14)		Soil								Sampled: 04/10/09 12:20
Dry Weight	BSOPSP003R0 8	18.5	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-16 (Area1-J8-9)		Soil								Sampled: 04/10/09 14:00
Dry Weight	BSOPSP003R0 8	16.8	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	
BSD0125-17 (Area1-J9-9)		Soil								Sampled: 04/10/09 14:10
Dry Weight	BSOPSP003R0 8	17.8	----	1.00	%	1x	9D10036	04/10/09 16:54	04/11/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D10030 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D10030-BLK1)													Extracted: 04/10/09 16:00			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/10/09 16:23			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.8%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/10/09 16:23</i>			
LCS (9D10030-BS1)													Extracted: 04/10/09 16:00			
Gasoline Range Hydrocarbons	NWTPH-Gx	47.9	1.40	5.00	mg/kg wet	1x	--	50.0	95.8%	(80-120)	--	--	04/10/09 16:55			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 100%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/10/09 16:55</i>			
Duplicate (9D10030-DUP1)													QC Source: BSD0125-02		Extracted: 04/10/09 16:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	139	2.30	8.21	mg/kg dry	1x	133	--	--	--	4.25% (40)		04/10/09 22:21			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 169%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/10/09 22:21</i>	ZX		
Duplicate (9D10030-DUP2)													QC Source: BSD0126-01		Extracted: 04/10/09 16:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.53	5.47	mg/kg dry	1x	ND	--	--	--	NR (40)		04/10/09 22:53			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/10/09 22:53</i>			
Matrix Spike (9D10030-MS1)													QC Source: BSD0125-02		Extracted: 04/10/09 16:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	215	2.30	8.21	mg/kg dry	1x	133	48.5	168%	(75-130)	--	--	04/10/09 23:25	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 176%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/10/09 23:25</i>	ZX		

QC Batch: 9D13021 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D13021-BLK1)													Extracted: 04/13/09 09:00			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/13/09 09:07			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.0%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/13/09 09:07</i>			
LCS (9D13021-BS1)													Extracted: 04/13/09 09:00			
Gasoline Range Hydrocarbons	NWTPH-Gx	48.8	1.40	5.00	mg/kg wet	1x	--	50.0	97.6%	(80-120)	--	--	04/13/09 09:39			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/13/09 09:39</i>			
Duplicate (9D13021-DUP1)													QC Source: BSD0125-01RE1		Extracted: 04/13/09 09:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	14.7	9.74	34.8	mg/kg dry	1x	16.5	--	--	--	11.3% (40)		04/13/09 10:43	J		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 210%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/13/09 10:43</i>	ZX		
Duplicate (9D13021-DUP2)													QC Source: BSD0125-03RE1		Extracted: 04/13/09 09:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	17.3	10.1	36.2	mg/kg dry	1x	18.9	--	--	--	8.72% (40)		04/13/09 14:20	J		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 206%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/13/09 14:20</i>	ZX		

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	08/04/09 08:34
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13021 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9D13021-MS1)			QC Source: BSD0125-01RE1				Extracted: 04/13/09 09:00							
Gasoline Range Hydrocarbons	NWTPH-Gx	349	9.74	34.8	mg/kg dry	1x	16.5	158	210%	(75-130)	--	--	04/13/09 18:36	MI
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 230%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/13/09 18:36</i>		ZX

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D10034 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D10034-BLK1)													Extracted: 04/10/09 16:52	
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/10/09 20:13	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 90.0%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/10/09 20:13</i>		
<i>Octacosane</i>		<i>108%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		
LCS (9D10034-BS1)													Extracted: 04/10/09 16:52	
Lube Oil	NWTPH-Dx	59.4	---	25.0	mg/kg wet	1x	--	66.7	89.1%	(63-125)	--	--	04/10/09 20:37	
Diesel Range Hydrocarbons	"	68.8	---	10.0	"	"	--	"	103%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 95.1%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/10/09 20:37</i>		
<i>Octacosane</i>		<i>109%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		
Duplicate (9D10034-DUP1)													QC Source: BSD0125-12 Extracted: 04/10/09 16:52	
Lube Oil	NWTPH-Dx	67.7	---	38.3	mg/kg dry	1x	52.6	--	--	--	25.0%	(50)	04/10/09 21:00	
Kerosene	"	ND	---	15.3	"	"	ND	--	--	--	31.1%	"	"	
Diesel Range Hydrocarbons	"	43.5	---	15.3	"	"	32.1	--	--	--	30.0%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 101%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/10/09 21:00</i>		
<i>Octacosane</i>		<i>110%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		
Duplicate (9D10034-DUP2)													QC Source: BSD0125-15 Extracted: 04/10/09 16:52	
Lube Oil	NWTPH-Dx	288	---	134	mg/kg dry	1x	208	--	--	--	32.0%	(50)	04/10/09 21:23	
Kerosene	"	ND	---	53.6	"	"	ND	--	--	--	34.3%	"	"	
Diesel Range Hydrocarbons	"	495	---	53.6	"	"	385	--	--	--	25.1%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 97.2%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/10/09 21:23</i>		
<i>Octacosane</i>		<i>108%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		
Matrix Spike (9D10034-MS1)													QC Source: BSD0125-12 Extracted: 04/10/09 16:52	
Lube Oil	NWTPH-Dx	195	---	38.8	mg/kg dry	1x	52.6	104	138%	(26-150)	--	--	04/10/09 21:47	
Diesel Range Hydrocarbons	"	170	---	15.5	"	"	32.1	"	133%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 96.3%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/10/09 21:47</i>		
<i>Octacosane</i>		<i>107%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D13002-BLK1)

Extracted: 04/10/09 15:43

Barium	EPA 6020	ND	---	4.95	mg/kg wet	1x	--	--	--	--	--	--	04/13/09 08:01	
Selenium	"	ND	---	0.990	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.495	"	"	--	--	--	--	--	--	"	

LCS (9D13002-BS1)

Extracted: 04/10/09 15:43

Barium	EPA 6020	39.1	---	4.76	mg/kg wet	1x	--	38.1	103%	(80-120)	--	--	04/13/09 08:07	
Silver	"	38.9	---	0.476	"	"	--	"	102%	"	--	--	"	
Arsenic	"	38.7	---	0.476	"	"	--	"	102%	"	--	--	"	
Lead	"	37.8	---	0.476	"	"	--	"	99.2%	"	--	--	"	
Chromium	"	38.5	---	0.476	"	"	--	"	101%	"	--	--	"	
Cadmium	"	38.3	---	0.476	"	"	--	"	100%	"	--	--	"	
Selenium	"	39.1	---	0.952	"	"	--	"	103%	"	--	--	"	

Duplicate (9D13002-DUP1)

QC Source: BSD0126-01

Extracted: 04/10/09 15:43

Arsenic	EPA 6020	2.25	---	0.550	mg/kg dry	1x	1.75	--	--	--	25.0%	(20)	04/13/09 08:26	R3
Silver	"	ND	---	0.550	"	"	ND	--	--	--	NR	"	"	
Selenium	"	ND	---	1.10	"	"	ND	--	--	--	NR	"	"	
Cadmium	"	ND	---	0.550	"	"	ND	--	--	--	18.3%	"	"	
Barium	"	38.5	---	5.50	"	"	37.3	--	--	--	3.36%	"	"	
Chromium	"	19.6	---	0.550	"	"	20.6	--	--	--	5.14%	"	"	
Lead	"	2.88	---	0.550	"	"	3.07	--	--	--	6.56%	"	"	

Matrix Spike (9D13002-MS1)

QC Source: BSD0126-01

Extracted: 04/10/09 15:43

Barium	EPA 6020	87.9	---	5.44	mg/kg dry	1x	37.3	43.6	116%	(75-125)	--	--	04/13/09 08:20	
Lead	"	45.0	---	0.544	"	"	3.07	"	96.3%	"	--	--	"	
Cadmium	"	42.7	---	0.544	"	"	0.0778	"	97.8%	"	--	--	"	
Selenium	"	42.9	---	1.09	"	"	ND	"	98.4%	"	--	--	"	
Chromium	"	70.9	---	0.544	"	"	20.6	"	115%	"	--	--	"	
Silver	"	38.5	---	0.544	"	"	ND	"	88.4%	"	--	--	"	
Arsenic	"	44.0	---	0.544	"	"	1.75	"	97.0%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9D13002-PS1)		QC Source: BSD0126-01				Extracted: 04/10/09 15:43								
Lead	EPA 6020	0.108	---		ug/ml	1x	0.00592	0.100	102%	(80-120)	--	--	04/13/09 08:13	
Cadmium	"	0.105	---		"	"	0.000150	"	105%	"	--	--	"	
Arsenic	"	0.108	---		"	"	0.00338	0.0995	105%	"	--	--	"	
Silver	"	0.0983	---		"	"	0.0000500	0.100	98.2%	"	--	--	"	
Barium	"	0.180	---		"	"	0.0718	"	108%	"	--	--	"	
Chromium	"	0.145	---		"	"	0.0398	"	104%	"	--	--	"	
Selenium	"	0.105	---		"	"	0.000330	"	105%	"	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D15012 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D15012-BLK1)								Extracted: 04/15/09 09:32						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/15/09 13:28	
Blank (9D15012-BLK2)								Extracted: 04/15/09 09:32						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/15/09 13:42	
LCS (9D15012-BS1)								Extracted: 04/15/09 09:32						
Lead	EPA 6010B	45.7	---	1.00	mg/l	1x	--	50.0	91.4%	(80-120)	--	--	04/15/09 13:46	
Duplicate (9D15012-DUP1)				QC Source: BSD0125-01				Extracted: 04/15/09 09:32						
Lead	EPA 6010B	10.3	---	1.00	mg/l	1x	10.3	--	--	--	0.388% (20)	--	04/15/09 13:52	
Matrix Spike (9D15012-MS1)				QC Source: BSD0125-01				Extracted: 04/15/09 09:32						
Lead	EPA 6010B	55.6	---	1.00	mg/l	1x	10.3	50.0	90.6%	(80-120)	--	--	04/15/09 13:49	
Post Spike (9D15012-PS1)				QC Source: BSD0125-01				Extracted: 04/15/09 09:32						
Lead	EPA 6010B	5.74	---		ug/ml	1x	1.03	5.00	94.1%	(75-125)	--	--	04/15/09 13:55	

QC Batch: 9D17012 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D17012-BLK1)								Extracted: 04/17/09 11:40						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/17/09 16:47	
Blank (9D17012-BLK2)								Extracted: 04/17/09 11:40						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/17/09 16:51	
LCS (9D17012-BS1)								Extracted: 04/17/09 11:40						
Lead	EPA 6010B	45.9	---	1.00	mg/l	1x	--	50.0	91.8%	(80-120)	--	--	04/17/09 16:55	
Duplicate (9D17012-DUP1)				QC Source: BSD0158-01				Extracted: 04/17/09 11:40						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	ND	--	--	--	2.96% (20)	--	04/17/09 16:58	
Matrix Spike (9D17012-MS1)				QC Source: BSD0158-01				Extracted: 04/17/09 11:40						
Lead	EPA 6010B	46.4	---	1.00	mg/l	1x	0.412	50.0	91.9%	(80-120)	--	--	04/17/09 17:01	
Post Spike (9D17012-PS1)				QC Source: BSD0158-01				Extracted: 04/17/09 11:40						
Lead	EPA 6010B	4.60	---		ug/ml	1x	0.0412	5.00	91.1%	(75-125)	--	--	04/17/09 17:05	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759381	08/04/09 08:34
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13056 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D13056-BLK1)													Extracted: 04/13/09 19:07	
Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	04/13/09 20:34	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13056 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D13056-BLK1)

Extracted: 04/13/09 19:07

Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	04/13/09 20:34	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 101%	Limits: 70-140%	"	04/13/09 20:34
Toluene-d8	100%	70-130%	"	"
4-BFB	103%	70-130%	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 08/04/09 08:34

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13056 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
LCS (9D13056-BS1)													Extracted: 04/13/09 19:07			
Acetone	EPA 8260B	614	---	40.0	ug/kg wet	1x	--	500	123%	(60-140)	--	--	04/13/09 19:43			
Benzene	"	45.9	---	1.50	"	"	--	50.0	91.8%	(70-125)	--	--	"			
2-Butanone	"	510	---	30.0	"	"	--	500	102%	(60-140)	--	--	"			
Carbon disulfide	"	49.0	---	3.00	"	"	--	50.0	98.0%	(70-130)	--	--	"			
Chlorobenzene	"	46.4	---	2.00	"	"	--	"	92.8%	(70-125)	--	--	"			
1,1-Dichloroethane	"	48.8	---	2.00	"	"	--	"	97.6%	(75-125)	--	--	"			
1,1-Dichloroethene	"	48.3	---	3.00	"	"	--	"	96.7%	(70-130)	--	--	"			
cis-1,2-Dichloroethene	"	48.1	---	3.00	"	"	--	"	96.1%	(75-125)	--	--	"			
Ethylbenzene	"	47.9	---	4.00	"	"	--	"	95.8%	(70-125)	--	--	"			
Hexachlorobutadiene	"	50.7	---	10.0	"	"	--	"	101%	(70-130)	--	--	"			
4-Methyl-2-pentanone	"	579	---	30.0	"	"	--	500	116%	(60-140)	--	--	"			
Tetrachloroethene	"	45.1	---	2.00	"	"	--	50.0	90.1%	(70-125)	--	--	"			
Toluene	"	44.7	---	1.50	"	"	--	"	89.4%	"	--	--	"			
1,1,1-Trichloroethane	"	48.5	---	2.50	"	"	--	"	97.0%	(70-130)	--	--	"			
Trichloroethene	"	45.0	---	2.50	"	"	--	"	90.0%	(70-125)	--	--	"			
Total Xylenes	"	144	---	10.0	"	"	--	150	95.9%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 105%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>04/13/09 19:43</i>
<i>Toluene-d8</i>													<i>98.5%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>102%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9D13056-BSD1)

Extracted: 04/13/09 19:07

Acetone	EPA 8260B	556	---	40.0	ug/kg wet	1x	--	500	111%	(60-140)	9.93% (30)		04/13/09 20:09			
Benzene	"	46.1	---	1.50	"	"	--	50.0	92.3%	(70-125)	0.522%	"	"			
2-Butanone	"	490	---	30.0	"	"	--	500	98.0%	(60-140)	3.92%	"	"			
Carbon disulfide	"	48.6	---	3.00	"	"	--	50.0	97.2%	(70-130)	0.799%	"	"			
Chlorobenzene	"	46.1	---	2.00	"	"	--	"	92.2%	(70-125)	0.627%	"	"			
1,1-Dichloroethane	"	48.0	---	2.00	"	"	--	"	95.9%	(75-125)	1.72%	"	"			
1,1-Dichloroethene	"	47.7	---	3.00	"	"	--	"	95.4%	(70-130)	1.33%	"	"			
cis-1,2-Dichloroethene	"	47.2	---	3.00	"	"	--	"	94.4%	(75-125)	1.81%	"	"			
Ethylbenzene	"	48.2	---	4.00	"	"	--	"	96.5%	(70-125)	0.728%	"	"			
Hexachlorobutadiene	"	50.4	---	10.0	"	"	--	"	101%	(70-130)	0.613%	"	"			
4-Methyl-2-pentanone	"	566	---	30.0	"	"	--	500	113%	(60-140)	2.29%	"	"			
Tetrachloroethene	"	46.8	---	2.00	"	"	--	50.0	93.6%	(70-125)	3.79%	"	"			
Toluene	"	45.2	---	1.50	"	"	--	"	90.5%	"	1.16%	"	"			
1,1,1-Trichloroethane	"	48.7	---	2.50	"	"	--	"	97.3%	(70-130)	0.350%	"	"			
Trichloroethene	"	46.4	---	2.50	"	"	--	"	92.9%	(70-125)	3.08%	"	"			
Total Xylenes	"	146	---	10.0	"	"	--	150	97.1%	(70-130)	1.24%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 101%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>04/13/09 20:09</i>
<i>Toluene-d8</i>													<i>97.7%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	08/04/09 08:34
	Project Manager:	Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13056 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9D13056-BSD1)

Extracted: 04/13/09 19:07

Surrogate(s): 4-BFB

Recovery: 102%

Limits: 70-130% 1x

04/13/09 20:09

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
--	---	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D10025 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D10025-BLK1)

Extracted: 04/10/09 14:00

Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/10/09 17:41	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 96.8%	Limits: 75-125%	"	04/10/09 17:41
Toluene-d8	94.6%	75-125%	"	"
4-BFB	98.5%	75-125%	"	"

LCS (9D10025-BS1)

Extracted: 04/10/09 14:00

Benzene	EPA 8260B	3.58	0.0100	0.0200	mg/kg wet	1x	--	4.00	89.6%	(75-125)	--	--	04/10/09 16:08	
Ethylbenzene	"	3.65	0.0120	0.100	"	"	--	"	91.2%	"	--	--	"	
Methyl tert-butyl ether	"	4.18	0.0100	0.0500	"	"	--	"	104%	"	--	--	"	
Naphthalene	"	3.96	1.10	2.00	"	"	--	"	98.9%	(60-140)	--	--	"	
Toluene	"	3.44	0.0100	0.100	"	"	--	"	86.1%	(75-125)	--	--	"	
o-Xylene	"	3.74	0.0170	0.100	"	"	--	"	93.5%	"	--	--	"	
m,p-Xylene	"	7.24	0.0210	0.200	"	"	--	8.00	90.5%	"	--	--	"	
Xylenes (total)	"	11.0	0.0310	0.300	"	"	--	12.0	91.5%	"	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 97.6%	Limits: 75-125%	"	04/10/09 16:08
Toluene-d8	87.4%	75-125%	"	"
4-BFB	94.4%	75-125%	"	"

LCS Dup (9D10025-BSD1)

Extracted: 04/10/09 14:00

Benzene	EPA 8260B	3.46	0.0100	0.0200	mg/kg wet	1x	--	4.00	86.4%	(75-125)	3.64% (20)		04/10/09 16:39	
Ethylbenzene	"	3.39	0.0120	0.100	"	"	--	"	84.8%	"	7.19%	"	"	
Methyl tert-butyl ether	"	3.87	0.0100	0.0500	"	"	--	"	96.8%	"	7.60%	"	"	
Naphthalene	"	3.70	1.10	2.00	"	"	--	"	92.6%	(60-140)	6.61%	"	"	
Toluene	"	3.22	0.0100	0.100	"	"	--	"	80.4%	(75-125)	6.88%	"	"	
o-Xylene	"	3.46	0.0170	0.100	"	"	--	"	86.6%	"	7.69%	"	"	
m,p-Xylene	"	6.55	0.0210	0.200	"	"	--	8.00	81.9%	"	9.99%	"	"	
Xylenes (total)	"	10.0	0.0310	0.300	"	"	--	12.0	83.4%	"	9.20%	"	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 96.8%	Limits: 75-125%	"	04/10/09 16:39
Toluene-d8	89.0%	75-125%	"	"
4-BFB	96.8%	75-125%	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:34
--	---	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13044 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D13044-BLK1)

Extracted: 04/13/09 13:41

Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/13/09 18:48	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 94.6%	Limits: 75-125%	"	04/13/09 18:48
Toluene-d8	98.8%	75-125%	"	"
4-BFB	97.2%	75-125%	"	"

LCS (9D13044-BS1)

Extracted: 04/13/09 13:41

Benzene	EPA 8260B	3.92	0.0100	0.0200	mg/kg wet	1x	--	4.00	98.0%	(75-125)	--	--	04/13/09 17:15	
Ethylbenzene	"	4.02	0.0120	0.100	"	"	--	"	100%	"	--	--	"	
Methyl tert-butyl ether	"	3.97	0.0100	0.0500	"	"	--	"	99.2%	"	--	--	"	
Naphthalene	"	4.05	1.10	2.00	"	"	--	"	101%	(60-140)	--	--	"	
Toluene	"	3.85	0.0100	0.100	"	"	--	"	96.2%	(75-125)	--	--	"	
o-Xylene	"	3.98	0.0170	0.100	"	"	--	"	99.4%	"	--	--	"	
m,p-Xylene	"	7.92	0.0210	0.200	"	"	--	8.00	99.0%	"	--	--	"	
Xylenes (total)	"	11.9	0.0310	0.300	"	"	--	12.0	99.2%	"	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 96.6%	Limits: 75-125%	"	04/13/09 17:15
Toluene-d8	92.8%	75-125%	"	"
4-BFB	93.8%	75-125%	"	"

LCS Dup (9D13044-BSD1)

Extracted: 04/13/09 13:41

Benzene	EPA 8260B	3.72	0.0100	0.0200	mg/kg wet	1x	--	4.00	92.9%	(75-125)	5.32% (20)		04/13/09 17:46	
Ethylbenzene	"	3.76	0.0120	0.100	"	"	--	"	94.0%	"	6.68%	"	"	
Methyl tert-butyl ether	"	3.72	0.0100	0.0500	"	"	--	"	92.9%	"	6.51%	"	"	
Naphthalene	"	4.00	1.10	2.00	"	"	--	"	99.9%	(60-140)	1.37%	"	"	
Toluene	"	3.63	0.0100	0.100	"	"	--	"	90.8%	(75-125)	5.75%	"	"	
o-Xylene	"	3.77	0.0170	0.100	"	"	--	"	94.2%	"	5.42%	"	"	
m,p-Xylene	"	7.42	0.0210	0.200	"	"	--	8.00	92.8%	"	6.52%	"	"	
Xylenes (total)	"	11.2	0.0310	0.300	"	"	--	12.0	93.2%	"	6.15%	"	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 96.6%	Limits: 75-125%	"	04/13/09 17:46
Toluene-d8	95.0%	75-125%	"	"
4-BFB	96.4%	75-125%	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	08/04/09 08:34
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D10036 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D10036-BLK1)										Extracted: 04/10/09 16:54				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/11/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:34

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the kerosene range are primarily due to overlap from a heavy oil range product.
- A-01a - Sample was extracted into methanol within 48 hours at the laboratory.
- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- Z - Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- Z1 - Surrogate recovery was above acceptance limits.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA10115**

CLIENT: CONOCO PETERS		INVOICE TO: CP		TURNAROUND REQUEST					
REPORT TO: WMEP Staff		ADDRESS:		in Business Days *					
PHONE:		P.O. NUMBER:		Organic & Inorganic Analyses					
PROJECT NAME: WMEP Phase II		PRESERVATIVE:		Petroleum Hydrocarbon Analyses					
PROJECT NUMBER:		REQUESTED ANALYSES:		OTHER: 22-h					
SAMPLED BY: Matthew McKibbin		DATE/TIME		Specify 22-h					
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MTTH	MTTH	MTTH	MTTH	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 AR01-H12-14	4-10-09 / 0915	X	X	X	X	S	5	Sandchst	01
2 "	" / 0920	X	X	X	X			Wood-Skeen	02
3 "	" / 0930	X	X	X	X			Hopper Sandchst	03
4 "	" / 0940	X	X	X	X			2.7 ppm Sandchst	04
5 "	" / 0950	X	X	X	X			Open Sandchst	05
6 "	" / 1000	X	X	X	X			Sandchst	07
7 "	" / 1010	X	X	X	X			Open Sandchst	07
8 "	" / 1110	X	X	X	X			1.5 ppm Sandchst	08
9 "	" / 1120	X	X	X	X			5.5 ppm Sandchst	09
10 "	" / 1130	X	X	X	X			2.3 ppm Sandchst	10
RELEASED BY: Matthew McKibbin		DATE: 4-10-09		RECEIVED BY: [Signature]		DATE: 4/10/09		FIRM: T-A-S-E-A	
PRINT NAME: Matthew McKibbin		TIME: 1515		PRINT NAME: Francisco Lung, Jr.		TIME: 1526		FIRM: T-A-S-E-A	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:		FIRM:	
PRINT NAME:		TIME:		PRINT NAME:		TIME:		FIRM:	
FIRM: WMEP		FIRM: WMEP		FIRM: WMEP		FIRM: WMEP		FIRM: WMEP	
ADDITIONAL REMARKS:		* w/ Napthalene + mttbe		* use low soil method by 2009 if needed		TEMP: 0.9 °C		PAGE 1 OF 2	

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/10/09

Date: 4/10

Date: 4/10

Work Order No. BAN0125

Time: 1620

Time: 16:21

Time: 17:30

Client: _____

Initials: FL

Initials: CL

Initials: CL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS _____ TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 0.9 Y or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? Y or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? Y or N _____

Adequate Volume? Y or N _____
(for tests requested)

#Containers match COG? Y or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? Y or N _____

Comments: _____

Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

August 04, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/13/09 15:30.
The following list is a summary of the Work Orders contained in this report, generated on 08/04/09
08:45.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0135	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-I10-9	BSD0135-01	Soil	04/13/09 08:30	04/13/09 15:30
AREA1-E10-14	BSD0135-02	Soil	04/13/09 09:30	04/13/09 15:30
AREA1-E11-14	BSD0135-03	Soil	04/13/09 09:40	04/13/09 15:30
AREA1-E13-14	BSD0135-04	Soil	04/13/09 09:50	04/13/09 15:30
AREA1-E14-14	BSD0135-05	Soil	04/13/09 10:00	04/13/09 15:30
AREA1-D10-14	BSD0135-06	Soil	04/13/09 10:10	04/13/09 15:30
AREA1-D11-14	BSD0135-07	Soil	04/13/09 10:20	04/13/09 15:30
AREA1-D12-14	BSD0135-08	Soil	04/13/09 10:30	04/13/09 15:30
AREA1-D13-14	BSD0135-09	Soil	04/13/09 10:40	04/13/09 15:30
AREA1-D14-14	BSD0135-10	Soil	04/13/09 10:50	04/13/09 15:30
AREA1-E12-14	BSD0135-11	Soil	04/13/09 11:00	04/13/09 15:30
DUP-4	BSD0135-12	Soil	04/13/09 15:30	04/13/09 15:30
AREA1-B13-10	BSD0135-13	Soil	04/13/09 14:15	04/13/09 15:30
AREA1-B14-9	BSD0135-14	Soil	04/13/09 14:30	04/13/09 15:30

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-01 (AREA1-I10-9)		Soil		Sampled: 04/13/09 08:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	20.2	19.1	68.1	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 00:27	M1, J
Surrogate(s): 4-BFB (FID)			187%		75 - 140 %	"			"	ZX
BSD0135-01RE1 (AREA1-I10-9)		Soil		Sampled: 04/13/09 08:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	11.6	41.4	mg/kg dry	1x	9D14015	04/14/09 11:22	04/14/09 14:46	
Surrogate(s): 4-BFB (FID)			212%		75 - 140 %	"			"	ZX
BSD0135-02 (AREA1-E10-14)		Soil		Sampled: 04/13/09 09:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	41.8	13.5	48.1	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 00:59	J
Surrogate(s): 4-BFB (FID)			151%		75 - 140 %	"			"	ZX
BSD0135-02RE1 (AREA1-E10-14)		Soil		Sampled: 04/13/09 09:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	14.6	9.01	32.2	mg/kg dry	1x	9D14015	04/14/09 11:22	04/14/09 15:18	M1, J
Surrogate(s): 4-BFB (FID)			213%		75 - 140 %	"			"	ZX
BSD0135-03 (AREA1-E11-14)		Soil		Sampled: 04/13/09 09:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	104	7.19	25.7	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 01:31	
Surrogate(s): 4-BFB (FID)			150%		75 - 140 %	"			"	ZX
BSD0135-04 (AREA1-E13-14)		Soil		Sampled: 04/13/09 09:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	14.4	51.5	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 02:03	
Surrogate(s): 4-BFB (FID)			142%		75 - 140 %	"			"	ZX
BSD0135-04RE1 (AREA1-E13-14)		Soil		Sampled: 04/13/09 09:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	8.83	31.5	mg/kg dry	1x	9D14015	04/14/09 11:22	04/14/09 16:22	
Surrogate(s): 4-BFB (FID)			211%		75 - 140 %	"			"	ZX
BSD0135-05 (AREA1-E14-14)		Soil		Sampled: 04/13/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	13.9	49.7	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 02:35	
Surrogate(s): 4-BFB (FID)			143%		75 - 140 %	"			"	ZX

TestAmerica Seattle



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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-05RE1 (AREA1-E14-14)		Soil		Sampled: 04/13/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	8.47	30.3	mg/kg dry	1x	9D14015	04/14/09 11:22	04/14/09 16:54	
Surrogate(s): 4-BFB (FID)			210%		75 - 140 %	"				ZX
BSD0135-06 (AREA1-D10-14)		Soil		Sampled: 04/13/09 10:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	3.82	13.7	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 05:46	
Surrogate(s): 4-BFB (FID)			129%		75 - 140 %	"				
BSD0135-07 (AREA1-D11-14)		Soil		Sampled: 04/13/09 10:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	204	12.6	45.1	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 06:18	
Surrogate(s): 4-BFB (FID)			159%		75 - 140 %	"				ZX
BSD0135-08 (AREA1-D12-14)		Soil		Sampled: 04/13/09 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	183	18.8	67.1	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 06:50	
Surrogate(s): 4-BFB (FID)			152%		75 - 140 %	"				ZX
BSD0135-09 (AREA1-D13-14)		Soil		Sampled: 04/13/09 10:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	11.2	40.1	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 07:22	
Surrogate(s): 4-BFB (FID)			143%		75 - 140 %	"				ZX
BSD0135-09RE1 (AREA1-D13-14)		Soil		Sampled: 04/13/09 10:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	7.13	25.5	mg/kg dry	1x	9D14015	04/14/09 11:22	04/14/09 17:26	
Surrogate(s): 4-BFB (FID)			203%		75 - 140 %	"				ZX
BSD0135-10 (AREA1-D14-14)		Soil		Sampled: 04/13/09 10:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	22.5	10.0	35.9	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 07:54	J
Surrogate(s): 4-BFB (FID)			138%		75 - 140 %	"				
BSD0135-10RE1 (AREA1-D14-14)		Soil		Sampled: 04/13/09 10:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	10.2	5.93	21.2	mg/kg dry	1x	9D14015	04/14/09 11:22	04/14/09 20:07	J
Surrogate(s): 4-BFB (FID)			198%		75 - 140 %	"				ZX

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-11 (AREA1-E12-14)		Soil			Sampled: 04/13/09 11:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	110	13.4	47.9	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 08:26	
Surrogate(s): 4-BFB (FID)			150%		75 - 140 %	"				ZX
BSD0135-12 (DUP-4)		Soil			Sampled: 04/13/09 15:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	180	13.9	49.7	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 08:58	
Surrogate(s): 4-BFB (FID)			153%		75 - 140 %	"				ZX
BSD0135-13 (AREA1-B13-10)		Soil			Sampled: 04/13/09 14:15					
Gasoline Range Hydrocarbons	NWTPH-Gx	29.3	18.6	66.5	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 09:30	J
Surrogate(s): 4-BFB (FID)			152%		75 - 140 %	"				ZX
BSD0135-13RE1 (AREA1-B13-10)		Soil			Sampled: 04/13/09 14:15					
Gasoline Range Hydrocarbons	NWTPH-Gx	19.2	12.3	43.9	mg/kg dry	1x	9D14015	04/14/09 11:22	04/14/09 14:14	J
Surrogate(s): 4-BFB (FID)			220%		75 - 140 %	"				ZX
BSD0135-14 (AREA1-B14-9)		Soil			Sampled: 04/13/09 14:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	192	12.4	44.2	mg/kg dry	1x	9D13051	04/13/09 17:01	04/14/09 10:02	
Surrogate(s): 4-BFB (FID)			152%		75 - 140 %	"				ZX

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-01 (AREA1-I10-9)		Soil		Sampled: 04/13/09 08:30						
Lube Oil	NWTPH-Dx	272	----	139	mg/kg dry	1x	9D13046	04/13/09 15:45	04/13/09 22:06	Q1
Kerosene	"	ND	----	55.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	129	----	55.7	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			95.3%		54 - 148 %	"			"	
Octacosane			110%		62 - 142 %	"			"	
BSD0135-02 (AREA1-E10-14)		Soil		Sampled: 04/13/09 09:30						
Lube Oil	NWTPH-Dx	570	----	112	mg/kg dry	1x	9D13046	04/13/09 15:45	04/13/09 22:29	Q1
Kerosene	"	47.7	----	44.9	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	272	----	44.9	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			90.0%		54 - 148 %	"			"	
Octacosane			103%		62 - 142 %	"			"	
BSD0135-03 (AREA1-E11-14)		Soil		Sampled: 04/13/09 09:40						
Kerosene	NWTPH-Dx	5200	----	286	mg/kg dry	10x	9D13046	04/13/09 15:45	04/13/09 22:52	A-01
Surrogate(s): 2-FBP			88.4%		54 - 148 %	"			"	
Octacosane			143%		62 - 142 %	"			"	ZX
BSD0135-03RE1 (AREA1-E11-14)		Soil		Sampled: 04/13/09 09:40						
Lube Oil	NWTPH-Dx	39600	----	3580	mg/kg dry	50x	9D13046	04/13/09 15:45	04/14/09 10:09	
Diesel Range Hydrocarbons	"	30800	----	1430	"	"	"	"	"	
Surrogate(s): 2-FBP			NR		54 - 148 %	"			"	Z3
Octacosane			NR		62 - 142 %	"			"	Z3
BSD0135-04 (AREA1-E13-14)		Soil		Sampled: 04/13/09 09:50						
Lube Oil	NWTPH-Dx	ND	----	110	mg/kg dry	1x	9D13046	04/13/09 15:45	04/13/09 23:16	
Kerosene	"	ND	----	44.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	87.7	----	44.0	"	"	"	"	"	QP
Surrogate(s): 2-FBP			91.2%		54 - 148 %	"			"	
Octacosane			106%		62 - 142 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-05 (AREA1-E14-14)		Soil			Sampled: 04/13/09 10:00					
Lube Oil	NWTPH-Dx	740	----	106	mg/kg dry	1x	9D13046	04/13/09 15:45	04/14/09 01:13	Q1
Kerosene	"	73.1	----	42.5	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	634	----	42.5	"	"	"	"	"	Q6, QP
Surrogate(s): 2-FBP			94.0%		54 - 148 %	"			"	
Octacosane			107%		62 - 142 %	"			"	
BSD0135-06 (AREA1-D10-14)		Soil			Sampled: 04/13/09 10:10					
Lube Oil	NWTPH-Dx	ND	----	32.6	mg/kg dry	1x	9D13046	04/13/09 15:45	04/14/09 01:36	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.0	"	"	"	"	"	
Surrogate(s): 2-FBP			90.1%		54 - 148 %	"			"	
Octacosane			110%		62 - 142 %	"			"	
BSD0135-07 (AREA1-D11-14)		Soil			Sampled: 04/13/09 10:20					
Kerosene	NWTPH-Dx	2070	----	230	mg/kg dry	5x	9D13046	04/13/09 15:45	04/14/09 02:00	A-01
Diesel Range Hydrocarbons	"	12700	----	230	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			107%		54 - 148 %	"			"	
Octacosane			95.8%		62 - 142 %	"			"	
BSD0135-07RE1 (AREA1-D11-14)		Soil			Sampled: 04/13/09 10:20					
Lube Oil	NWTPH-Dx	14200	----	2300	mg/kg dry	20x	9D13046	04/13/09 15:45	04/14/09 10:33	Q1
Surrogate(s): 2-FBP			90.9%		54 - 148 %	"			"	
Octacosane			89.0%		62 - 142 %	"			"	
BSD0135-08 (AREA1-D12-14)		Soil			Sampled: 04/13/09 10:30					
Kerosene	NWTPH-Dx	334	----	40.7	mg/kg dry	1x	9D13046	04/13/09 15:45	04/14/09 02:23	A-01
Diesel Range Hydrocarbons	"	2010	----	40.7	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			93.3%		54 - 148 %	"			"	
Octacosane			92.6%		62 - 142 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-08RE1 (AREA1-D12-14)		Soil		Sampled: 04/13/09 10:30						
Lube Oil	NWTPH-Dx	3010	----	509	mg/kg dry	5x	9D13046	04/13/09 15:45	04/14/09 10:56	Q1
<i>Surrogate(s): 2-FBP</i>			91.7%		54 - 148 %	"				"
<i>Octacosane</i>			98.9%		62 - 142 %	"				"
BSD0135-09 (AREA1-D13-14)		Soil		Sampled: 04/13/09 10:40						
Lube Oil	NWTPH-Dx	96.4	----	92.5	mg/kg dry	1x	9D13046	04/13/09 15:45	04/14/09 02:47	Q1
Kerosene	"	ND	----	37.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	523	----	37.0	"	"	"	"	"	QP
<i>Surrogate(s): 2-FBP</i>			92.8%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"
BSD0135-10 (AREA1-D14-14)		Soil		Sampled: 04/13/09 10:50						
Lube Oil	NWTPH-Dx	ND	----	80.3	mg/kg dry	1x	9D13046	04/13/09 15:45	04/14/09 03:10	
Kerosene	"	ND	----	32.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	398	----	32.1	"	"	"	"	"	QP
<i>Surrogate(s): 2-FBP</i>			88.9%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0135-11 (AREA1-E12-14)		Soil		Sampled: 04/13/09 11:00						
Lube Oil	NWTPH-Dx	914	----	115	mg/kg dry	1x	9D13046	04/13/09 15:45	04/14/09 03:33	Q1
Kerosene	"	99.5	----	45.9	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	835	----	45.9	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			96.2%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"
BSD0135-12 (DUP-4)		Soil		Sampled: 04/13/09 15:30						
Kerosene	NWTPH-Dx	790	----	46.7	mg/kg dry	1x	9D13046	04/13/09 15:45	04/14/09 03:57	A-01
<i>Surrogate(s): 2-FBP</i>			80.4%		54 - 148 %	"				"
<i>Octacosane</i>			60.0%		62 - 142 %	"				Z

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-12RE1 (DUP-4)		Soil		Sampled: 04/13/09 15:30						
Lube Oil	NWTPH-Dx	6540	----	1170	mg/kg dry	10x	9D13046	04/13/09 15:45	04/14/09 11:20	Q1
Diesel Range Hydrocarbons	"	4970	----	467	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			79.1%		54 - 148 %	"			"	
<i>Octacosane</i>			83.7%		62 - 142 %	"			"	
BSD0135-13 (AREA1-B13-10)		Soil		Sampled: 04/13/09 14:15						
Lube Oil	NWTPH-Dx	ND	----	151	mg/kg dry	1x	9D13046	04/13/09 15:45	04/14/09 04:20	
Kerosene	"	ND	----	60.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	60.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			101%		54 - 148 %	"			"	
<i>Octacosane</i>			120%		62 - 142 %	"			"	
BSD0135-14 (AREA1-B14-9)		Soil		Sampled: 04/13/09 14:30						
Lube Oil	NWTPH-Dx	433	----	102	mg/kg dry	1x	9D13046	04/13/09 15:45	04/14/09 04:44	Q1
Kerosene	"	87.7	----	40.6	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	809	----	40.6	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			83.1%		54 - 148 %	"			"	
<i>Octacosane</i>			93.3%		62 - 142 %	"			"	

TestAmerica Seattle



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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-01 (AREA1-I10-9)		Soil		Sampled: 04/13/09 08:30						
Arsenic	EPA 6020	5.57	----	2.93	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 08:15	
Barium	"	32.2	----	29.3	"	"	"	"	"	
Cadmium	"	ND	----	2.93	"	"	"	"	"	
Chromium	"	7.38	----	2.93	"	"	"	"	"	
Lead	"	91.6	----	2.93	"	"	"	"	"	
Selenium	"	ND	----	5.86	"	"	"	"	"	
Silver	"	ND	----	2.93	"	"	"	"	"	
BSD0135-02 (AREA1-E10-14)		Soil		Sampled: 04/13/09 09:30						
Arsenic	EPA 6020	4.14	----	2.23	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 08:21	
Barium	"	106	----	22.3	"	"	"	"	"	
Cadmium	"	2.23	----	2.23	"	"	"	"	"	
Chromium	"	18.3	----	2.23	"	"	"	"	"	
Lead	"	518	----	2.23	"	"	"	"	"	
Selenium	"	ND	----	4.45	"	"	"	"	"	
Silver	"	ND	----	2.23	"	"	"	"	"	
BSD0135-03 (AREA1-E11-14)		Soil		Sampled: 04/13/09 09:40						
Arsenic	EPA 6020	28.3	----	1.40	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 08:47	
Barium	"	465	----	14.0	"	"	"	"	"	
Cadmium	"	ND	----	1.40	"	"	"	"	"	
Chromium	"	30.4	----	1.40	"	"	"	"	"	
Selenium	"	ND	----	2.80	"	"	"	"	"	
Silver	"	ND	----	1.40	"	"	"	"	"	
BSD0135-03RE1 (AREA1-E11-14)		Soil		Sampled: 04/13/09 09:40						
Lead	EPA 6020	6500	----	28.0	mg/kg dry	20x	9D13058	04/13/09 20:44	04/14/09 09:37	
BSD0135-04 (AREA1-E13-14)		Soil		Sampled: 04/13/09 09:50						
Arsenic	EPA 6020	ND	----	2.17	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 08:53	
Barium	"	30.4	----	21.7	"	"	"	"	"	
Cadmium	"	ND	----	2.17	"	"	"	"	"	
Chromium	"	ND	----	2.17	"	"	"	"	"	
Lead	"	21.1	----	2.17	"	"	"	"	"	
Selenium	"	ND	----	4.34	"	"	"	"	"	
Silver	"	ND	----	2.17	"	"	"	"	"	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-05 (AREA1-E14-14)		Soil		Sampled: 04/13/09 10:00						
Arsenic	EPA 6020	ND	----	2.19	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 08:59	
Barium	"	ND	----	21.9	"	"	"	"	"	
Cadmium	"	ND	----	2.19	"	"	"	"	"	
Chromium	"	ND	----	2.19	"	"	"	"	"	
Lead	"	33.6	----	2.19	"	"	"	"	"	
Selenium	"	ND	----	4.38	"	"	"	"	"	
Silver	"	ND	----	2.19	"	"	"	"	"	
BSD0135-06 (AREA1-D10-14)		Soil		Sampled: 04/13/09 10:10						
Arsenic	EPA 6020	3.34	----	0.663	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 09:06	
Barium	"	96.2	----	6.63	"	"	"	"	"	
Cadmium	"	ND	----	0.663	"	"	"	"	"	
Chromium	"	45.1	----	0.663	"	"	"	"	"	
Lead	"	4.50	----	0.663	"	"	"	"	"	
Selenium	"	ND	----	1.33	"	"	"	"	"	
Silver	"	ND	----	0.663	"	"	"	"	"	
BSD0135-07 (AREA1-D11-14)		Soil		Sampled: 04/13/09 10:20						
Arsenic	EPA 6020	21.4	----	2.29	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 09:12	
Barium	"	516	----	22.9	"	"	"	"	"	
Cadmium	"	ND	----	2.29	"	"	"	"	"	
Chromium	"	9.16	----	2.29	"	"	"	"	"	
Selenium	"	ND	----	4.58	"	"	"	"	"	
Silver	"	ND	----	2.29	"	"	"	"	"	
BSD0135-07RE1 (AREA1-D11-14)		Soil		Sampled: 04/13/09 10:20						
Lead	EPA 6020	6410	----	22.9	mg/kg dry	10x	9D13058	04/13/09 20:44	04/14/09 10:34	
BSD0135-08 (AREA1-D12-14)		Soil		Sampled: 04/13/09 10:30						
Arsenic	EPA 6020	5.85	----	2.14	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 09:18	
Barium	"	106	----	21.4	"	"	"	"	"	
Cadmium	"	ND	----	2.14	"	"	"	"	"	
Chromium	"	5.81	----	2.14	"	"	"	"	"	
Lead	"	560	----	2.14	"	"	"	"	"	
Selenium	"	ND	----	4.27	"	"	"	"	"	
Silver	"	ND	----	2.14	"	"	"	"	"	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-09 (AREA1-D13-14)		Soil		Sampled: 04/13/09 10:40						
Arsenic	EPA 6020	ND	----	1.89	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 09:24	
Barium	"	ND	----	18.9	"	"	"	"	"	
Cadmium	"	ND	----	1.89	"	"	"	"	"	
Chromium	"	ND	----	1.89	"	"	"	"	"	
Lead	"	9.06	----	1.89	"	"	"	"	"	
Selenium	"	ND	----	3.78	"	"	"	"	"	
Silver	"	ND	----	1.89	"	"	"	"	"	
BSD0135-10 (AREA1-D14-14)		Soil		Sampled: 04/13/09 10:50						
Arsenic	EPA 6020	ND	----	1.57	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 09:31	
Barium	"	ND	----	15.7	"	"	"	"	"	
Cadmium	"	ND	----	1.57	"	"	"	"	"	
Chromium	"	ND	----	1.57	"	"	"	"	"	
Lead	"	2.61	----	1.57	"	"	"	"	"	
Selenium	"	ND	----	3.14	"	"	"	"	"	
Silver	"	ND	----	1.57	"	"	"	"	"	
BSD0135-11 (AREA1-E12-14)		Soil		Sampled: 04/13/09 11:00						
Arsenic	EPA 6020	5.49	----	2.32	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 10:09	
Barium	"	84.1	----	23.2	"	"	"	"	"	
Cadmium	"	ND	----	2.32	"	"	"	"	"	
Chromium	"	13.7	----	2.32	"	"	"	"	"	
Lead	"	227	----	2.32	"	"	"	"	"	
Selenium	"	ND	----	4.64	"	"	"	"	"	
Silver	"	ND	----	2.32	"	"	"	"	"	
BSD0135-12 (DUP-4)		Soil		Sampled: 04/13/09 15:30						
Arsenic	EPA 6020	18.0	----	2.30	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 10:15	
Barium	"	237	----	23.0	"	"	"	"	"	
Cadmium	"	ND	----	2.30	"	"	"	"	"	
Chromium	"	7.13	----	2.30	"	"	"	"	"	
Selenium	"	ND	----	4.60	"	"	"	"	"	
Silver	"	ND	----	2.30	"	"	"	"	"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-12RE1 (DUP-4)		Soil		Sampled: 04/13/09 15:30						
Lead	EPA 6020	3440	----	23.0	mg/kg dry	10x	9D13058	04/13/09 20:44	04/14/09 10:47	
BSD0135-13 (AREA1-B13-10)		Soil		Sampled: 04/13/09 14:15						
Arsenic	EPA 6020	ND	----	2.94	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 10:21	
Barium	"	34.7	----	29.4	"	"	"	"	"	
Cadmium	"	ND	----	2.94	"	"	"	"	"	
Chromium	"	3.26	----	2.94	"	"	"	"	"	
Lead	"	36.6	----	2.94	"	"	"	"	"	
Selenium	"	ND	----	5.88	"	"	"	"	"	
Silver	"	ND	----	2.94	"	"	"	"	"	
BSD0135-14 (AREA1-B14-9)		Soil		Sampled: 04/13/09 14:30						
Arsenic	EPA 6020	ND	----	2.01	mg/kg dry	1x	9D13058	04/13/09 20:44	04/14/09 10:28	
Barium	"	ND	----	20.1	"	"	"	"	"	
Cadmium	"	ND	----	2.01	"	"	"	"	"	
Chromium	"	ND	----	2.01	"	"	"	"	"	
Lead	"	12.5	----	2.01	"	"	"	"	"	
Selenium	"	ND	----	4.02	"	"	"	"	"	
Silver	"	ND	----	2.01	"	"	"	"	"	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-02 (AREA1-E10-14)		Soil		Sampled: 04/13/09 09:30						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:44	
BSD0135-03 (AREA1-E11-14)		Soil		Sampled: 04/13/09 09:40						
Lead	EPA 6010B	2.54	----	1.00	mg/l	1x	9D15012	04/15/09 09:32	04/15/09 14:13	
BSD0135-07 (AREA1-D11-14)		Soil		Sampled: 04/13/09 10:20						
Lead	EPA 6010B	11.0	----	1.00	mg/l	1x	9D15012	04/15/09 09:32	04/15/09 14:27	
BSD0135-08 (AREA1-D12-14)		Soil		Sampled: 04/13/09 10:30						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:47	
BSD0135-11 (AREA1-E12-14)		Soil		Sampled: 04/13/09 11:00						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:51	
BSD0135-12 (DUP-4)		Soil		Sampled: 04/13/09 15:30						
Lead	EPA 6010B	8.32	----	1.00	mg/l	1x	9D15012	04/15/09 09:32	04/15/09 14:30	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-01 (AREA1-I10-9)		Soil		Sampled: 04/13/09 08:30						
Benzene	EPA 8260B	ND	----	6.40	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 10:25	
Toluene	"	ND	----	6.40	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>107%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>140%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZI
<i>4-BFB</i>			<i>138%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZI
BSD0135-02 (AREA1-E10-14)		Soil		Sampled: 04/13/09 09:30						
Benzene	EPA 8260B	ND	----	4.43	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 10:50	
Ethylbenzene	"	ND	----	11.8	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	2.95	"	"	"	"	"	
o-Xylene	"	ND	----	14.8	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	14.8	"	"	"	"	"	I2
Total Xylenes	"	ND	----	29.5	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>123%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>132%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZX
<i>4-BFB</i>			<i>135%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZX
BSD0135-03 (AREA1-E11-14)		Soil		Sampled: 04/13/09 09:40						
Benzene	EPA 8260B	ND	----	3.58	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 11:15	
Methyl tert-butyl ether	"	ND	----	2.39	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>156%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	ZX
<i>Toluene-d8</i>			<i>112%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2
<i>4-BFB</i>			<i>156%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	ZX
BSD0135-04 (AREA1-E13-14)		Soil		Sampled: 04/13/09 09:50						
Ethylbenzene	EPA 8260B	ND	----	15.1	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 11:41	I2
Methyl tert-butyl ether	"	ND	----	3.78	"	"	"	"	"	
Naphthalene	"	ND	----	37.8	"	"	"	"	"	I2
Toluene	"	ND	----	5.66	"	"	"	"	"	I2
o-Xylene	"	ND	----	18.9	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	18.9	"	"	"	"	"	I2
Total Xylenes	"	ND	----	37.8	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>121%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>133%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZI
<i>4-BFB</i>			<i>136%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZI

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-05 (AREA1-E14-14)		Soil		Sampled: 04/13/09 10:00						
Benzene	EPA 8260B	ND	----	5.43	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 12:06	
Ethylbenzene	"	ND	----	14.5	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	3.62	"	"	"	"	"	
Naphthalene	"	ND	----	36.2	"	"	"	"	"	I2
Toluene	"	ND	----	5.43	"	"	"	"	"	I2
o-Xylene	"	ND	----	18.1	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	18.1	"	"	"	"	"	I2
Total Xylenes	"	ND	----	36.2	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>127%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>124%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2
<i>4-BFB</i>			<i>127%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2
BSD0135-07 (AREA1-D11-14)		Soil		Sampled: 04/13/09 10:20						
Benzene	EPA 8260B	70.5	----	4.66	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 12:57	
Methyl tert-butyl ether	"	ND	----	3.10	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>179%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	ZX
<i>Toluene-d8</i>			<i>146%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZX
<i>4-BFB</i>			<i>147%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZX
BSD0135-08 (AREA1-D12-14)		Soil		Sampled: 04/13/09 10:30						
Benzene	EPA 8260B	27.5	----	3.80	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 13:23	
Methyl tert-butyl ether	"	ND	----	2.53	"	"	"	"	"	
Naphthalene	"	ND	----	25.3	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>122%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>127%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2
<i>4-BFB</i>			<i>145%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZX
BSD0135-09 (AREA1-D13-14)		Soil		Sampled: 04/13/09 10:40						
Ethylbenzene	EPA 8260B	ND	----	8.74	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 13:48	I2
Methyl tert-butyl ether	"	ND	----	2.19	"	"	"	"	"	
Naphthalene	"	ND	----	21.9	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>103%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>135%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	ZI, I2
<i>4-BFB</i>			<i>140%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	I2, ZI

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-10 (AREA1-D14-14)		Soil		Sampled: 04/13/09 10:50						
Benzene	EPA 8260B	ND	----	2.92	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 14:14	
Ethylbenzene	"	ND	----	7.78	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	1.94	"	"	"	"	"	
Naphthalene	"	ND	----	19.4	"	"	"	"	"	I2
Toluene	"	ND	----	2.92	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			107%		70 - 140 %	"			"	
<i>Toluene-d8</i>			132%		70 - 130 %	"			"	I2, ZX
<i>4-BFB</i>			136%		70 - 130 %	"			"	I2, ZX
BSD0135-11 (AREA1-E12-14)		Soil		Sampled: 04/13/09 11:00						
Benzene	EPA 8260B	29.1	----	4.65	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 14:39	
Ethylbenzene	"	112	----	12.4	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	3.10	"	"	"	"	"	
Toluene	"	60.9	----	4.65	"	"	"	"	"	
o-Xylene	"	101	----	15.5	"	"	"	"	"	
m,p-Xylene	"	298	----	15.5	"	"	"	"	"	
Total Xylenes	"	399	----	31.0	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			119%		70 - 140 %	"			"	
<i>Toluene-d8</i>			121%		70 - 130 %	"			"	
<i>4-BFB</i>			133%		70 - 130 %	"			"	I2, ZX
BSD0135-12 (DUP-4)		Soil		Sampled: 04/13/09 15:30						
Benzene	EPA 8260B	96.7	----	4.87	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 15:05	
Methyl tert-butyl ether	"	ND	----	3.25	"	"	"	"	"	
Naphthalene	"	ND	----	32.5	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			158%		70 - 140 %	"			"	ZX
<i>Toluene-d8</i>			138%		70 - 130 %	"			"	I2, ZX
<i>4-BFB</i>			152%		70 - 130 %	"			"	I2, ZX
BSD0135-13 (AREA1-B13-10)		Soil		Sampled: 04/13/09 14:15						
Benzene	EPA 8260B	ND	----	6.47	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 15:30	
Ethylbenzene	"	ND	----	17.2	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	4.31	"	"	"	"	"	
Naphthalene	"	ND	----	43.1	"	"	"	"	"	I2
Toluene	"	8.49	----	6.47	"	"	"	"	"	
o-Xylene	"	ND	----	21.6	"	"	"	"	"	
m,p-Xylene	"	22.6	----	21.6	"	"	"	"	"	
Total Xylenes	"	ND	----	43.1	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			109%		70 - 140 %	"			"	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	08/04/09 08:45
	Project Manager:	Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-13 (AREA1-B13-10)		Soil		Sampled: 04/13/09 14:15						
<i>Toluene-d8</i>		123%			70 - 130 %	1x			04/14/09 15:30	
<i>4-BFB</i>		134%			70 - 130 %	"			"	12, ZX
BSD0135-14 (AREA1-B14-9)		Soil		Sampled: 04/13/09 14:30						
Benzene	EPA 8260B	ND	----	4.43	ug/kg dry	1x	9D14004	04/14/09 07:19	04/14/09 15:56	
Methyl tert-butyl ether	"	ND	----	2.95	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>				70 - 140 %	"			"	
	<i>Toluene-d8</i>				70 - 130 %	"			"	12, Z1
	<i>4-BFB</i>				70 - 130 %	"			"	12, Z1

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-01 (AREA1-I10-9)		Soil		Sampled: 04/13/09 08:30						
Ethylbenzene	EPA 8260B	ND	0.163	1.36	mg/kg dry	1x	9D13044	04/13/09 17:41	04/13/09 19:49	
Methyl tert-butyl ether	"	ND	0.136	0.681	"	"	"	"	"	
Naphthalene	"	ND	15.0	27.2	"	"	"	"	"	
Toluene	"	ND	0.136	1.36	"	"	"	"	"	
o-Xylene	"	ND	0.232	1.36	"	"	"	"	"	
m,p-Xylene	"	ND	0.286	2.72	"	"	"	"	"	
Xylenes (total)	"	ND	0.422	4.09	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			95.4%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.2%		75 - 125 %	"				"
<i>4-BFB</i>			96.6%		75 - 125 %	"				"
BSD0135-02 (AREA1-E10-14)		Soil		Sampled: 04/13/09 09:30						
Naphthalene	EPA 8260B	ND	10.6	19.2	mg/kg dry	1x	9D13044	04/13/09 17:41	04/13/09 20:20	
Toluene	"	0.115	0.0962	0.962	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			95.9%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.4%		75 - 125 %	"				"
<i>4-BFB</i>			99.2%		75 - 125 %	"				"
BSD0135-03 (AREA1-E11-14)		Soil		Sampled: 04/13/09 09:40						
Ethylbenzene	EPA 8260B	0.262	0.0616	0.514	mg/kg dry	1x	9D13044	04/13/09 17:41	04/13/09 20:51	J
Naphthalene	"	ND	5.65	10.3	"	"	"	"	"	
Toluene	"	0.0514	0.0514	0.514	"	"	"	"	"	J
o-Xylene	"	0.103	0.0873	0.514	"	"	"	"	"	J
m,p-Xylene	"	0.329	0.108	1.03	"	"	"	"	"	J
Xylenes (total)	"	0.432	0.159	1.54	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			96.4%		75 - 125 %	"				"
<i>Toluene-d8</i>			96.6%		75 - 125 %	"				"
<i>4-BFB</i>			97.8%		75 - 125 %	"				"
BSD0135-04 (AREA1-E13-14)		Soil		Sampled: 04/13/09 09:50						
Benzene	EPA 8260B	ND	0.103	0.206	mg/kg dry	1x	9D13044	04/13/09 17:41	04/13/09 21:22	
<i>Surrogate(s): 1,2-DCA-d4</i>			93.4%		75 - 125 %	"				"
<i>Toluene-d8</i>			95.6%		75 - 125 %	"				"
<i>4-BFB</i>			101%		75 - 125 %	"				"

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-06 (AREA1-D10-14)		Soil		Sampled: 04/13/09 10:10						
Benzene	EPA 8260B	ND	0.0273	0.0546	mg/kg dry	1x	9D13044	04/13/09 17:41	04/13/09 22:24	
Ethylbenzene	"	ND	0.0328	0.273	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	0.0273	0.137	"	"	"	"	"	
Naphthalene	"	ND	3.00	5.46	"	"	"	"	"	
Toluene	"	ND	0.0273	0.273	"	"	"	"	"	
o-Xylene	"	ND	0.0464	0.273	"	"	"	"	"	
m,p-Xylene	"	ND	0.0573	0.546	"	"	"	"	"	
Xylenes (total)	"	ND	0.0846	0.819	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			95.9%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.6%		75 - 125 %	"				"
<i>4-BFB</i>			97.1%		75 - 125 %	"				"
BSD0135-07 (AREA1-D11-14)		Soil		Sampled: 04/13/09 10:20						
Ethylbenzene	EPA 8260B	0.216	0.108	0.902	mg/kg dry	1x	9D13044	04/13/09 17:41	04/13/09 22:55	J
Naphthalene	"	ND	9.92	18.0	"	"	"	"	"	
Toluene	"	0.280	0.0902	0.902	"	"	"	"	"	J
o-Xylene	"	ND	0.153	0.902	"	"	"	"	"	
m,p-Xylene	"	0.866	0.189	1.80	"	"	"	"	"	J
Xylenes (total)	"	0.974	0.280	2.71	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			96.0%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.7%		75 - 125 %	"				"
<i>4-BFB</i>			96.8%		75 - 125 %	"				"
BSD0135-08 (AREA1-D12-14)		Soil		Sampled: 04/13/09 10:30						
Ethylbenzene	EPA 8260B	0.215	0.161	1.34	mg/kg dry	1x	9D13044	04/13/09 17:41	04/13/09 23:26	J
Toluene	"	ND	0.134	1.34	"	"	"	"	"	
o-Xylene	"	ND	0.228	1.34	"	"	"	"	"	
m,p-Xylene	"	0.684	0.282	2.68	"	"	"	"	"	J
Xylenes (total)	"	0.899	0.416	4.02	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			92.4%		75 - 125 %	"				"
<i>Toluene-d8</i>			95.0%		75 - 125 %	"				"
<i>4-BFB</i>			97.9%		75 - 125 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-09 (AREA1-D13-14)		Soil		Sampled: 04/13/09 10:40						
Benzene	EPA 8260B	ND	0.0801	0.160	mg/kg dry	1x	9D13044	04/13/09 17:41	04/13/09 23:57	
Toluene	"	ND	0.0801	0.801	"	"	"	"	"	
o-Xylene	"	ND	0.136	0.801	"	"	"	"	"	
m,p-Xylene	"	ND	0.168	1.60	"	"	"	"	"	
Xylenes (total)	"	ND	0.248	2.40	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			92.9%		75 - 125 %	"				"
<i>Toluene-d8</i>			95.6%		75 - 125 %	"				"
<i>4-BFB</i>			97.6%		75 - 125 %	"				"
BSD0135-10 (AREA1-D14-14)		Soil		Sampled: 04/13/09 10:50						
o-Xylene	EPA 8260B	ND	0.122	0.717	mg/kg dry	1x	9D13044	04/13/09 17:41	04/14/09 00:28	
m,p-Xylene	"	ND	0.151	1.43	"	"	"	"	"	
Xylenes (total)	"	ND	0.222	2.15	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			91.6%		75 - 125 %	"				"
<i>Toluene-d8</i>			95.2%		75 - 125 %	"				"
<i>4-BFB</i>			96.9%		75 - 125 %	"				"
BSD0135-11 (AREA1-E12-14)		Soil		Sampled: 04/13/09 11:00						
Naphthalene	EPA 8260B	ND	10.5	19.2	mg/kg dry	1x	9D13044	04/13/09 17:41	04/14/09 00:59	
<i>Surrogate(s): 1,2-DCA-d4</i>			92.6%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.1%		75 - 125 %	"				"
<i>4-BFB</i>			98.6%		75 - 125 %	"				"
BSD0135-12 (DUP-4)		Soil		Sampled: 04/13/09 15:30						
Ethylbenzene	EPA 8260B	0.239	0.119	0.994	mg/kg dry	1x	9D13044	04/13/09 17:41	04/14/09 01:30	J
Toluene	"	0.328	0.0994	0.994	"	"	"	"	"	J
o-Xylene	"	ND	0.169	0.994	"	"	"	"	"	
m,p-Xylene	"	1.27	0.209	1.99	"	"	"	"	"	J
Xylenes (total)	"	1.41	0.308	2.98	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			93.5%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.6%		75 - 125 %	"				"
<i>4-BFB</i>			96.4%		75 - 125 %	"				"

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Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Volatile Organic Compounds by EPA Method 8260B

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-14 (AREA1-B14-9)		Soil					Sampled: 04/13/09 14:30			
Ethylbenzene	EPA 8260B	ND	0.106	0.883	mg/kg dry	1x	9D13044	04/13/09 17:41	04/14/09 02:32	
Naphthalene	"	ND	9.71	17.7	"	"	"	"	"	"
Toluene	"	ND	0.0883	0.883	"	"	"	"	"	"
o-Xylene	"	ND	0.150	0.883	"	"	"	"	"	"
m,p-Xylene	"	ND	0.185	1.77	"	"	"	"	"	"
Xylenes (total)	"	ND	0.274	2.65	"	"	"	"	"	"
<i>Surrogate(s):</i>										
	1,2-DCA-d4		92.4%		75 - 125 %	"				"
	Toluene-d8		95.2%		75 - 125 %	"				"
	4-BFB		95.6%		75 - 125 %	"				"

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-01 (AREA1-I10-9)		Soil								Sampled: 04/13/09 08:30
Dry Weight	BSOPSP003R0 8	17.8	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-02 (AREA1-E10-14)		Soil								Sampled: 04/13/09 09:30
Dry Weight	BSOPSP003R0 8	22.0	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-03 (AREA1-E11-14)		Soil								Sampled: 04/13/09 09:40
Dry Weight	BSOPSP003R0 8	34.4	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-04 (AREA1-E13-14)		Soil								Sampled: 04/13/09 09:50
Dry Weight	BSOPSP003R0 8	22.4	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-05 (AREA1-E14-14)		Soil								Sampled: 04/13/09 10:00
Dry Weight	BSOPSP003R0 8	23.3	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-06 (AREA1-D10-14)		Soil								Sampled: 04/13/09 10:10
Dry Weight	BSOPSP003R0 8	76.1	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-07 (AREA1-D11-14)		Soil								Sampled: 04/13/09 10:20
Dry Weight	BSOPSP003R0 8	21.4	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-08 (AREA1-D12-14)		Soil								Sampled: 04/13/09 10:30
Dry Weight	BSOPSP003R0 8	24.4	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-09 (AREA1-D13-14)		Soil								Sampled: 04/13/09 10:40
Dry Weight	BSOPSP003R0 8	26.8	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-10 (AREA1-D14-14)		Soil								Sampled: 04/13/09 10:50
Dry Weight	BSOPSP003R0 8	30.9	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-11 (AREA1-E12-14)		Soil								Sampled: 04/13/09 11:00

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0135-11 (AREA1-E12-14)		Soil								Sampled: 04/13/09 11:00
Dry Weight	BSOPSP003R0 8	21.8	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-12 (DUP-4)		Soil								Sampled: 04/13/09 15:30
Dry Weight	BSOPSP003R0 8	21.1	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-13 (AREA1-B13-10)		Soil								Sampled: 04/13/09 14:15
Dry Weight	BSOPSP003R0 8	16.7	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	
BSD0135-14 (AREA1-B14-9)		Soil								Sampled: 04/13/09 14:30
Dry Weight	BSOPSP003R0 8	24.4	----	1.00	%	1x	9D13047	04/13/09 15:40	04/14/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13051 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D13051-BLK1)													Extracted: 04/13/09 17:01			
Gasoline Range Hydrocarbons	NWTPH-Gx	1.99	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/13/09 23:23	J		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.8%</i>		<i>Limits: 75-140%</i>		"						04/13/09 23:23				
LCS (9D13051-BS1)													Extracted: 04/13/09 17:01			
Gasoline Range Hydrocarbons	NWTPH-Gx	48.3	1.40	5.00	mg/kg wet	1x	--	50.0	96.6%	(80-120)	--	--	04/13/09 23:55			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.3%</i>		<i>Limits: 75-140%</i>		"						04/13/09 23:55				
Duplicate (9D13051-DUP1)													QC Source: BSD0135-01		Extracted: 04/13/09 17:01	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	19.1	68.1	mg/kg dry	1x	20.2	--	--	--	--	(40)	04/14/09 03:07			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 189%</i>		<i>Limits: 75-140%</i>		"						04/14/09 03:07				
Duplicate (9D13051-DUP2)													QC Source: BSD0135-02		Extracted: 04/13/09 17:01	
Gasoline Range Hydrocarbons	NWTPH-Gx	34.7	13.5	48.1	mg/kg dry	1x	41.8	--	--	--	18.6%	(40)	04/14/09 03:39	J		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 149%</i>		<i>Limits: 75-140%</i>		"						04/14/09 03:39				
Matrix Spike (9D13051-MS1)													QC Source: BSD0135-01		Extracted: 04/13/09 17:01	
Gasoline Range Hydrocarbons	NWTPH-Gx	709	19.1	68.1	mg/kg dry	1x	20.2	346	199%	(75-130)	--	--	04/14/09 04:11	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 200%</i>		<i>Limits: 75-140%</i>		"						04/14/09 04:11				

QC Batch: 9D14015 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D14015-BLK1)													Extracted: 04/14/09 11:22			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/14/09 12:42			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.1%</i>		<i>Limits: 75-140%</i>		"						04/14/09 12:42				
LCS (9D14015-BS1)													Extracted: 04/14/09 11:22			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.4	1.40	5.00	mg/kg wet	1x	--	50.0	98.7%	(80-120)	--	--	04/14/09 13:14			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 100%</i>		<i>Limits: 75-140%</i>		"						04/14/09 13:14				
Duplicate (9D14015-DUP1)													QC Source: BSD0135-02RE1		Extracted: 04/14/09 11:22	
Gasoline Range Hydrocarbons	NWTPH-Gx	14.4	9.01	32.2	mg/kg dry	1x	14.6	--	--	--	1.74%	(40)	04/14/09 15:50	J		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 213%</i>		<i>Limits: 75-140%</i>		"						04/14/09 15:50				
Matrix Spike (9D14015-MS1)													QC Source: BSD0135-02RE1		Extracted: 04/14/09 11:22	
Gasoline Range Hydrocarbons	NWTPH-Gx	344	9.01	32.2	mg/kg dry	1x	14.6	145	227%	(75-130)	--	--	04/14/09 17:58	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 228%</i>		<i>Limits: 75-140%</i>		"						04/14/09 17:58				

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 08/04/09 08:45

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13046 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D13046-BLK1)													Extracted: 04/13/09 15:45			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/13/09 19:45			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/13/09 19:45</i>			
<i>Octacosane</i>			<i>112%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>			
LCS (9D13046-BS1)													Extracted: 04/13/09 15:45			
Lube Oil	NWTPH-Dx	62.2	---	25.0	mg/kg wet	1x	--	66.7	93.4%	(63-125)	--	--	04/13/09 20:09			
Diesel Range Hydrocarbons	"	70.9	---	10.0	"	"	--	"	106%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/13/09 20:09</i>			
<i>Octacosane</i>			<i>108%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9D13046-DUP1)													QC Source: BSD0135-06		Extracted: 04/13/09 15:45	
Lube Oil	NWTPH-Dx	ND	---	32.5	mg/kg dry	1x	ND	--	--	--	9.96% (50)		04/13/09 20:32			
Kerosene	"	ND	---	13.0	"	"	ND	--	--	--	"		"	R4		
Diesel Range Hydrocarbons	"	ND	---	13.0	"	"	ND	--	--	--	NR		"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/13/09 20:32</i>			
<i>Octacosane</i>			<i>113%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9D13046-DUP2)													QC Source: BSD0135-11		Extracted: 04/13/09 15:45	
Lube Oil	NWTPH-Dx	766	---	114	mg/kg dry	1x	914	--	--	--	17.7% (50)		04/13/09 20:56			
Kerosene	"	85.6	---	45.5	"	"	99.5	--	--	--	15.0%	"	"			
Diesel Range Hydrocarbons	"	666	---	45.5	"	"	835	--	--	--	22.5%	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>92.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/13/09 20:56</i>			
<i>Octacosane</i>			<i>105%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9D13046-MS1)													QC Source: BSD0135-06		Extracted: 04/13/09 15:45	
Lube Oil	NWTPH-Dx	80.7	---	32.4	mg/kg dry	1x	5.01	86.4	87.6%	(26-150)	--	--	04/13/09 21:19			
Diesel Range Hydrocarbons	"	90.8	---	13.0	"	"	2.85	"	102%	(46-155)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/13/09 21:19</i>			
<i>Octacosane</i>			<i>107%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>			

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13058 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D13058-BLK1)

Extracted: 04/13/09 20:44

Selenium	EPA 6020	ND	---	1.01	mg/kg wet	1x	--	--	--	--	--	--	04/14/09 07:43	
Cadmium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	5.05	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	

LCS (9D13058-BS1)

Extracted: 04/13/09 20:44

Selenium	EPA 6020	43.2	---	1.04	mg/kg wet	1x	--	41.7	104%	(80-120)	--	--	04/14/09 07:50	
Barium	"	43.2	---	5.21	"	"	--	"	104%	"	--	--	"	
Silver	"	42.0	---	0.521	"	"	--	"	101%	"	--	--	"	
Lead	"	41.5	---	0.521	"	"	--	"	99.6%	"	--	--	"	
Cadmium	"	41.8	---	0.521	"	"	--	"	100%	"	--	--	"	
Chromium	"	42.2	---	0.521	"	"	--	"	101%	"	--	--	"	
Arsenic	"	42.9	---	0.521	"	"	--	"	103%	"	--	--	"	

Duplicate (9D13058-DUP1)

QC Source: BSD0135-01

Extracted: 04/13/09 20:44

Silver	EPA 6020	ND	---	2.68	mg/kg dry	1x	ND	--	--	--	NR (20)	--	04/14/09 08:09	
Selenium	"	ND	---	5.36	"	"	ND	--	--	--	NR	"	"	
Cadmium	"	ND	---	2.68	"	"	ND	--	--	--	NR	"	"	
Arsenic	"	5.22	---	2.68	"	"	5.57	--	--	--	6.36%	"	"	
Chromium	"	8.76	---	2.68	"	"	7.38	--	--	--	17.1%	"	"	
Barium	"	32.9	---	26.8	"	"	32.2	--	--	--	2.23%	"	"	
Lead	"	89.9	---	2.68	"	"	91.6	--	--	--	1.96%	"	"	

Matrix Spike (9D13058-MS1)

QC Source: BSD0135-01

Extracted: 04/13/09 20:44

Silver	EPA 6020	230	---	2.90	mg/kg dry	1x	ND	232	99.2%	(75-125)	--	--	04/14/09 08:02	
Arsenic	"	242	---	2.90	"	"	5.57	"	102%	"	--	--	"	
Barium	"	267	---	29.0	"	"	32.2	"	101%	"	--	--	"	
Cadmium	"	230	---	2.90	"	"	ND	"	99.3%	"	--	--	"	
Chromium	"	245	---	2.90	"	"	7.38	"	102%	"	--	--	"	
Selenium	"	239	---	5.80	"	"	ND	"	103%	"	--	--	"	
Lead	"	344	---	2.90	"	"	91.6	"	109%	"	--	--	"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13058	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9D13058-PS1)		QC Source: BSD0135-01				Extracted: 04/13/09 20:44								
Cadmium	EPA 6020	0.101	---		ug/ml	1x	-0.0000300	0.100	101%	(80-120)	--	--	04/14/09 07:56	
Arsenic	"	0.105	---		"	"	0.00190	0.0995	104%	"	--	--	"	
Chromium	"	0.105	---		"	"	0.00252	0.100	102%	"	--	--	"	
Silver	"	0.0948	---		"	"	0.0000400	"	94.8%	"	--	--	"	
Selenium	"	0.103	---		"	"	0.0000600	"	103%	"	--	--	"	
Barium	"	0.113	---		"	"	0.0110	"	102%	"	--	--	"	
Lead	"	0.130	---		"	"	0.0313	"	98.4%	"	--	--	"	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D15012 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D15012-BLK1)								Extracted: 04/15/09 09:32						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/15/09 13:28	
Blank (9D15012-BLK2)								Extracted: 04/15/09 09:32						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/15/09 13:42	
LCS (9D15012-BS1)								Extracted: 04/15/09 09:32						
Lead	EPA 6010B	45.7	---	1.00	mg/l	1x	--	50.0	91.4%	(80-120)	--	--	04/15/09 13:46	
Duplicate (9D15012-DUP1)				QC Source: BSD0125-01				Extracted: 04/15/09 09:32						
Lead	EPA 6010B	10.3	---	1.00	mg/l	1x	10.3	--	--	--	0.388% (20)	--	04/15/09 13:52	
Matrix Spike (9D15012-MS1)				QC Source: BSD0125-01				Extracted: 04/15/09 09:32						
Lead	EPA 6010B	55.6	---	1.00	mg/l	1x	10.3	50.0	90.6%	(80-120)	--	--	04/15/09 13:49	
Post Spike (9D15012-PS1)				QC Source: BSD0125-01				Extracted: 04/15/09 09:32						
Lead	EPA 6010B	5.74	---		ug/ml	1x	1.03	5.00	94.1%	(75-125)	--	--	04/15/09 13:55	

QC Batch: 9D17012 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D17012-BLK1)								Extracted: 04/17/09 11:40						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/17/09 16:47	
Blank (9D17012-BLK2)								Extracted: 04/17/09 11:40						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/17/09 16:51	
LCS (9D17012-BS1)								Extracted: 04/17/09 11:40						
Lead	EPA 6010B	45.9	---	1.00	mg/l	1x	--	50.0	91.8%	(80-120)	--	--	04/17/09 16:55	
Duplicate (9D17012-DUP1)				QC Source: BSD0158-01				Extracted: 04/17/09 11:40						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	ND	--	--	--	2.96% (20)	--	04/17/09 16:58	
Matrix Spike (9D17012-MS1)				QC Source: BSD0158-01				Extracted: 04/17/09 11:40						
Lead	EPA 6010B	46.4	---	1.00	mg/l	1x	0.412	50.0	91.9%	(80-120)	--	--	04/17/09 17:01	
Post Spike (9D17012-PS1)				QC Source: BSD0158-01				Extracted: 04/17/09 11:40						
Lead	EPA 6010B	4.60	---		ug/ml	1x	0.0412	5.00	91.1%	(75-125)	--	--	04/17/09 17:05	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14004 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D14004-BLK1)													Extracted: 04/14/09 06:19	
Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	04/14/09 09:59	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	08/04/09 08:45

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14004 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (9D14004-BLK1)

Extracted: 04/14/09 06:19

Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	04/14/09 09:59	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 128%	Limits: 70-140%	"	04/14/09 09:59
Toluene-d8	95.1%	70-130%	"	"
4-BFB	99.3%	70-130%	"	"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 08/04/09 08:45

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14004 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D14004-BS1)													Extracted: 04/14/09 06:19	
Acetone	EPA 8260B	561	---	40.0	ug/kg wet	1x	--	500	112%	(60-140)	--	--	04/14/09 09:08	
Benzene	"	43.1	---	1.50	"	"	--	50.0	86.3%	(70-125)	--	--	"	
2-Butanone	"	511	---	30.0	"	"	--	500	102%	(60-140)	--	--	"	
Carbon disulfide	"	44.0	---	3.00	"	"	--	50.0	88.1%	(70-130)	--	--	"	
Chlorobenzene	"	43.8	---	2.00	"	"	--	"	87.5%	(70-125)	--	--	"	
1,1-Dichloroethane	"	44.6	---	2.00	"	"	--	"	89.3%	(75-125)	--	--	"	
1,1-Dichloroethene	"	43.9	---	3.00	"	"	--	"	87.7%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	44.8	---	3.00	"	"	--	"	89.7%	(75-125)	--	--	"	
Ethylbenzene	"	43.6	---	4.00	"	"	--	"	87.1%	(70-125)	--	--	"	
Hexachlorobutadiene	"	38.7	---	10.0	"	"	--	"	77.4%	(70-130)	--	--	"	
Methyl tert-butyl ether	"	50.7	---	1.00	"	"	--	"	101%	"	--	--	"	
4-Methyl-2-pentanone	"	592	---	30.0	"	"	--	500	118%	(60-140)	--	--	"	
Naphthalene	"	47.5	---	10.0	"	"	--	50.0	95.0%	(70-130)	--	--	"	
Tetrachloroethene	"	41.7	---	2.00	"	"	--	"	83.4%	(70-125)	--	--	"	
Toluene	"	43.4	---	1.50	"	"	--	"	86.8%	"	--	--	"	
1,1,1-Trichloroethane	"	45.5	---	2.50	"	"	--	"	91.0%	(70-130)	--	--	"	
Trichloroethene	"	42.6	---	2.50	"	"	--	"	85.2%	(70-125)	--	--	"	
o-Xylene	"	41.3	---	5.00	"	"	--	"	82.6%	(70-130)	--	--	"	
m,p-Xylene	"	90.1	---	5.00	"	"	--	100	90.1%	"	--	--	"	
Total Xylenes	"	131	---	10.0	"	"	--	150	87.6%	"	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>102%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>	<i>04/14/09 09:08</i>
	<i>Toluene-d8</i>		<i>98.1%</i>		<i>70-130%</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9D14004-BSD1)

LCS Dup (9D14004-BSD1)													Extracted: 04/14/09 06:19	
Acetone	EPA 8260B	587	---	40.0	ug/kg wet	1x	--	500	117%	(60-140)	4.55%	(30)	04/14/09 09:34	
Benzene	"	48.1	---	1.50	"	"	--	50.0	96.3%	(70-125)	10.9%	"	"	
2-Butanone	"	503	---	30.0	"	"	--	500	101%	(60-140)	1.55%	"	"	
Carbon disulfide	"	50.8	---	3.00	"	"	--	50.0	102%	(70-130)	14.3%	"	"	
Chlorobenzene	"	47.9	---	2.00	"	"	--	"	95.8%	(70-125)	8.99%	"	"	
1,1-Dichloroethane	"	50.8	---	2.00	"	"	--	"	102%	(75-125)	12.9%	"	"	
1,1-Dichloroethene	"	50.9	---	3.00	"	"	--	"	102%	(70-130)	14.9%	"	"	
cis-1,2-Dichloroethene	"	50.6	---	3.00	"	"	--	"	101%	(75-125)	12.0%	"	"	
Ethylbenzene	"	50.3	---	4.00	"	"	--	"	101%	(70-125)	14.4%	"	"	
Hexachlorobutadiene	"	50.0	---	10.0	"	"	--	"	100%	(70-130)	25.5%	"	"	
Methyl tert-butyl ether	"	51.6	---	1.00	"	"	--	"	103%	"	1.62%	"	"	
4-Methyl-2-pentanone	"	542	---	30.0	"	"	--	500	108%	(60-140)	8.88%	"	"	
Naphthalene	"	50.2	---	10.0	"	"	--	50.0	100%	(70-130)	5.41%	"	"	
Tetrachloroethene	"	48.4	---	2.00	"	"	--	"	96.8%	(70-125)	14.8%	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14004 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS Dup (9D14004-BSD1)										Extracted: 04/14/09 06:19				
Toluene	EPA 8260B	48.3	---	1.50	ug/kg wet	1x	--	50.0	96.6%	(70-125)	10.7%	(30)	04/14/09 09:34	
1,1,1-Trichloroethane	"	51.4	---	2.50	"	"	--	"	103%	(70-130)	12.1%	"	"	
Trichloroethene	"	48.8	---	2.50	"	"	--	"	97.7%	(70-125)	13.7%	"	"	
o-Xylene	"	48.2	---	5.00	"	"	--	"	96.4%	(70-130)	15.4%	"	"	
m,p-Xylene	"	105	---	5.00	"	"	--	100	105%	"	15.3%	"	"	
Total Xylenes	"	153	---	10.0	"	"	--	150	102%	"	15.3%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 104%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>04/14/09 09:34</i>		
<i>Toluene-d8</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>98.1%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 08/04/09 08:45
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13044 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D13044-BLK1)

Extracted: 04/13/09 13:41

Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/13/09 18:48	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>94.6%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>							<i>04/13/09 18:48</i>	
<i>Toluene-d8</i>			<i>98.8%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>97.2%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

LCS (9D13044-BS1)

Extracted: 04/13/09 13:41

Benzene	EPA 8260B	3.92	0.0100	0.0200	mg/kg wet	1x	--	4.00	98.0%	(75-125)	--	--	04/13/09 17:15	
Ethylbenzene	"	4.02	0.0120	0.100	"	"	--	"	100%	"	--	--	"	
Methyl tert-butyl ether	"	3.97	0.0100	0.0500	"	"	--	"	99.2%	"	--	--	"	
Naphthalene	"	4.05	1.10	2.00	"	"	--	"	101%	(60-140)	--	--	"	
Toluene	"	3.85	0.0100	0.100	"	"	--	"	96.2%	(75-125)	--	--	"	
o-Xylene	"	3.98	0.0170	0.100	"	"	--	"	99.4%	"	--	--	"	
m,p-Xylene	"	7.92	0.0210	0.200	"	"	--	8.00	99.0%	"	--	--	"	
Xylenes (total)	"	11.9	0.0310	0.300	"	"	--	12.0	99.2%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>96.6%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>							<i>04/13/09 17:15</i>	
<i>Toluene-d8</i>			<i>92.8%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>93.8%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

LCS Dup (9D13044-BSD1)

Extracted: 04/13/09 13:41

Benzene	EPA 8260B	3.72	0.0100	0.0200	mg/kg wet	1x	--	4.00	92.9%	(75-125)	5.32% (20)		04/13/09 17:46	
Ethylbenzene	"	3.76	0.0120	0.100	"	"	--	"	94.0%	"	6.68%	"	"	
Methyl tert-butyl ether	"	3.72	0.0100	0.0500	"	"	--	"	92.9%	"	6.51%	"	"	
Naphthalene	"	4.00	1.10	2.00	"	"	--	"	99.9%	(60-140)	1.37%	"	"	
Toluene	"	3.63	0.0100	0.100	"	"	--	"	90.8%	(75-125)	5.75%	"	"	
o-Xylene	"	3.77	0.0170	0.100	"	"	--	"	94.2%	"	5.42%	"	"	
m,p-Xylene	"	7.42	0.0210	0.200	"	"	--	8.00	92.8%	"	6.52%	"	"	
Xylenes (total)	"	11.2	0.0310	0.300	"	"	--	12.0	93.2%	"	6.15%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>96.6%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>							<i>04/13/09 17:46</i>	
<i>Toluene-d8</i>			<i>95.0%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>96.4%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	08/04/09 08:45
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D13047 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D13047-BLK1)										Extracted: 04/13/09 15:28				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/14/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

08/04/09 08:45

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the kerosene range are primarily due to overlap from a heavy oil range product.
- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z - Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
- Z1 - Surrogate recovery was above acceptance limits.
- Z3 - The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

Work Order #: **BSDA35**

CHAIN OF CUSTODY REPORT

CLIENT: Conoco Phillips		INVOICE TO: CP				
REPORT TO: wmcp staff		P.O. NUMBER:				
ADDRESS:		PRESERVATIVE				
PHONE:	FAX:	REQUESTED ANALYSES				
PROJECT NAME: WMCP Phase II		OTHER: 24-M				
PROJECT NUMBER:		* Turnaround Requests less than standard may incur Rush Charges.				
SAMPLED BY: Matthew McKibbin	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
	1 E10-9	4-13-09 / 0830	S	5	Sawdust	-01
	2 E10-14	" / 0930			PID=Oppn Sawdust	-02
	3 E11-14	" / 0940			9.1 ppm Wood (Kerosene?)	-03
	4 E13-14	" / 0950			4.7 ppm Sawdust	-04
	5 E14-14	" / 1000			Oppn Sawdust	-05
	6 D10-14	" / 1010			Sifted/Sandy	-06
	7 D11-14	" / 1020			0.3 ppm Sawdust	-07
	8 D12-14	" / 1030			2.0 ppm Sawdust	-08
	9 D13-14	" / 1040			9.4 ppm Sawdust	-09
	10 D14-14	" / 1050			0.2 ppm Sawdust	-10
RELEASED BY: Matthew McKibbin	DATE: 4-13-09	TIME: 1445	RECEIVED BY: TOM	DATE: 4/13/09	TIME: 7445	
PRINT NAME: MATTHEW MCKIBBIN	FIRM: mas		PRINT NAME: Blankenship	FIRM: TA-S		
RELEASED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:	
PRINT NAME:	FIRM:		PRINT NAME:	FIRM:		
ADDITIONAL REMARKS: *w/ Naphthalene + mTB6						

Temp: **W/o**
 3.4c
 @ Lab 1530

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11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSD0135**

CLIENT: Canoco Pulp Mills		INVOICE TO: CP	
REPORT TO: WMCSP staff		P.O. NUMBER:	
PHONE:	FAX:	PRESERVATIVE	
PROJECT NAME: WMCSP PHASE II		REQUESTED ANALYSES	
PROJECT NUMBER:		ORGANIC & INORGANIC ANALYSES	
SAMPLED BY: MATTHEW WICKEDEN		PETROLEUM HYDROCARBON ANALYSES	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	OTHER Specify: 24-hr	
1 AREAL-ER2-14	4-13-09 / 1100	MATRIX (W, S, O)	TA WO ID
2 DUP-4	" / "	S 5	-11
3 AREAL-B13-10	" / 1415	↓	-12
4 " - B14-9	" / 1430	↓	-13
5		↓	-14
6			
7			
8			
9			
10			

RECEIVED BY: **Tom Blankinship** DATE: **4/13/09**
 PRINT NAME: **Tom Blankinship** FIRM: **TA-S** TIME: **1445**
 RECEIVED BY: DATE: TIME:
 PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:
*** w/ Naphthalene + mst**

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 041309

Date: 0413

Date: 0413

Work Order No. BSD0135

Time: 1530

Time: 1542

Time: 1540

Client: _____

Initials: TB

Initials: CW

Initials: CW

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container _____ Sign By

Bubble Bags _____ Styrofoam

____ Box

____ On Bottles _____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 3.4 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or N or NA Soil

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA

Correct Type? or N _____

Adequate Volume? or N _____
(for tests requested)

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or NA

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Has client been contacted regarding non-conformances?

Y or N
Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 15, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/14/09 16:00.
The following list is a summary of the Work Orders contained in this report, generated on 04/15/09
13:54.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0147	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/15/09 13:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-J11-9	BSD0147-01	Soil	04/14/09 08:00	04/14/09 16:00
Area1-J12-9	BSD0147-02	Soil	04/14/09 08:15	04/14/09 16:00
Area1-J13-9	BSD0147-03	Soil	04/14/09 09:00	04/14/09 16:00
Area1-J14-9	BSD0147-04	Soil	04/14/09 09:15	04/14/09 16:00
Area1-J15-9	BSD0147-05	Soil	04/14/09 09:30	04/14/09 16:00

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/15/09 13:54
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0147-01 (Area1-J11-9)		Soil		Sampled: 04/14/09 08:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	4.73	1.60	5.71	mg/kg dry	1x	9D14042	04/14/09 16:56	04/14/09 20:38	J
Surrogate(s): 4-BFB (FID)		116%	75 - 140 %	"	"	"	"	"	"	"
BSD0147-02 (Area1-J12-9)		Soil		Sampled: 04/14/09 08:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.72	6.13	mg/kg dry	1x	9D14042	04/14/09 16:56	04/14/09 21:10	
Surrogate(s): 4-BFB (FID)		118%	75 - 140 %	"	"	"	"	"	"	
BSD0147-03 (Area1-J13-9)		Soil		Sampled: 04/14/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.64	5.86	mg/kg dry	1x	9D14042	04/14/09 16:56	04/14/09 21:42	
Surrogate(s): 4-BFB (FID)		116%	75 - 140 %	"	"	"	"	"	"	
BSD0147-04 (Area1-J14-9)		Soil		Sampled: 04/14/09 09:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.60	5.71	mg/kg dry	1x	9D14042	04/14/09 16:56	04/14/09 22:14	
Surrogate(s): 4-BFB (FID)		111%	75 - 140 %	"	"	"	"	"	"	
BSD0147-05 (Area1-J15-9)		Soil		Sampled: 04/14/09 09:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.76	6.29	mg/kg dry	1x	9D14042	04/14/09 16:56	04/14/09 22:46	
Surrogate(s): 4-BFB (FID)		112%	75 - 140 %	"	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/15/09 13:54

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0147-01 (Area1-J11-9)		Soil		Sampled: 04/14/09 08:00						
Lube Oil	NWTPH-Dx	ND	----	30.5	mg/kg dry	1x	9D14037	04/14/09 16:19	04/14/09 20:14	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			91.8%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"
BSD0147-02 (Area1-J12-9)		Soil		Sampled: 04/14/09 08:15						
Lube Oil	NWTPH-Dx	ND	----	30.9	mg/kg dry	1x	9D14037	04/14/09 16:19	04/14/09 20:37	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			98.8%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"
BSD0147-03 (Area1-J13-9)		Soil		Sampled: 04/14/09 09:00						
Lube Oil	NWTPH-Dx	ND	----	30.2	mg/kg dry	1x	9D14037	04/14/09 16:19	04/14/09 21:01	
Kerosene	"	ND	----	12.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			91.0%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"
BSD0147-04 (Area1-J14-9)		Soil		Sampled: 04/14/09 09:15						
Lube Oil	NWTPH-Dx	ND	----	29.7	mg/kg dry	1x	9D14037	04/14/09 16:19	04/14/09 21:24	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.2%		54 - 148 %	"				"
<i>Octacosane</i>			109%		62 - 142 %	"				"
BSD0147-05 (Area1-J15-9)		Soil		Sampled: 04/14/09 09:30						
Lube Oil	NWTPH-Dx	ND	----	30.1	mg/kg dry	1x	9D14037	04/14/09 16:19	04/14/09 21:48	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.2%		54 - 148 %	"				"
<i>Octacosane</i>			109%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/15/09 13:54

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0147-01 (Area1-J11-9)		Soil		Sampled: 04/14/09 08:00						
Lead	EPA 6020	1.60	----	0.622	mg/kg dry	1x	9D14051	04/14/09 21:37	04/15/09 09:59	R3
BSD0147-02 (Area1-J12-9)		Soil		Sampled: 04/14/09 08:15						
Lead	EPA 6020	1.70	----	0.652	mg/kg dry	1x	9D14051	04/14/09 21:37	04/15/09 10:05	
BSD0147-03 (Area1-J13-9)		Soil		Sampled: 04/14/09 09:00						
Lead	EPA 6020	1.55	----	0.618	mg/kg dry	1x	9D14051	04/14/09 21:37	04/15/09 10:12	
BSD0147-04 (Area1-J14-9)		Soil		Sampled: 04/14/09 09:15						
Lead	EPA 6020	1.48	----	0.593	mg/kg dry	1x	9D14051	04/14/09 21:37	04/15/09 10:18	
BSD0147-05 (Area1-J15-9)		Soil		Sampled: 04/14/09 09:30						
Lead	EPA 6020	1.57	----	0.598	mg/kg dry	1x	9D14051	04/14/09 21:37	04/15/09 10:24	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/15/09 13:54
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0147-01 (Area1-J11-9)		Soil			Sampled: 04/14/09 08:00					
Benzene	EPA 8260B	ND	----	0.000956	mg/kg dry	1x	9D14041	04/14/09 19:56	04/15/09 00:00	
Ethylbenzene	"	ND	----	0.00255	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000638	"	"	"	"	"	
Naphthalene	"	ND	----	0.00638	"	"	"	"	"	
Toluene	"	ND	----	0.000956	"	"	"	"	"	
o-Xylene	"	ND	----	0.00319	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00319	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00638	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>124%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>99.7%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>107%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

BSD0147-02 (Area1-J12-9)		Soil			Sampled: 04/14/09 08:15					
Benzene	EPA 8260B	ND	----	0.00102	mg/kg dry	1x	9D14041	04/14/09 19:56	04/15/09 00:25	
Ethylbenzene	"	ND	----	0.00272	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000680	"	"	"	"	"	
Naphthalene	"	ND	----	0.00680	"	"	"	"	"	
Toluene	"	ND	----	0.00102	"	"	"	"	"	
o-Xylene	"	ND	----	0.00340	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00340	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00680	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>133%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>99.3%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>105%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

BSD0147-03 (Area1-J13-9)		Soil			Sampled: 04/14/09 09:00						P13
Benzene	EPA 8260B	ND	----	0.000793	mg/kg dry	1x	9D14041	04/14/09 19:56	04/15/09 00:51		I
Ethylbenzene	"	ND	----	0.00212	"	"	"	"	"		I
Methyl tert-butyl ether	"	ND	----	0.000529	"	"	"	"	"		I
Naphthalene	"	ND	----	0.00529	"	"	"	"	"		I
Toluene	"	ND	----	0.000793	"	"	"	"	"		
o-Xylene	"	ND	----	0.00264	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00264	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00529	"	"	"	"	"		
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>130%</i>		<i>70 - 140 %</i>	<i>"</i>					
	<i>Toluene-d8</i>		<i>95.2%</i>		<i>70 - 130 %</i>	<i>"</i>					
	<i>4-BFB</i>		<i>106%</i>		<i>70 - 130 %</i>	<i>"</i>					I

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/15/09 13:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0147-04 (Area1-J14-9)		Soil		Sampled: 04/14/09 09:15						P13
Benzene	EPA 8260B	ND	----	0.000719	mg/kg dry	1x	9D14041	04/14/09 19:56	04/15/09 01:16	
Ethylbenzene	"	ND	----	0.00192	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000479	"	"	"	"	"	
Naphthalene	"	ND	----	0.00479	"	"	"	"	"	
Toluene	"	ND	----	0.000719	"	"	"	"	"	
o-Xylene	"	ND	----	0.00240	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00240	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00479	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>126%</i>		<i>70 - 140 %</i>	"				"
<i>Toluene-d8</i>			<i>96.6%</i>		<i>70 - 130 %</i>	"				"
<i>4-BFB</i>			<i>105%</i>		<i>70 - 130 %</i>	"				"
BSD0147-05 (Area1-J15-9)		Soil		Sampled: 04/14/09 09:30						P13
Benzene	EPA 8260B	ND	----	0.000877	mg/kg dry	1x	9D14041	04/14/09 19:56	04/15/09 01:41	
Ethylbenzene	"	ND	----	0.00234	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000585	"	"	"	"	"	
Naphthalene	"	ND	----	0.00585	"	"	"	"	"	
Toluene	"	ND	----	0.000877	"	"	"	"	"	
o-Xylene	"	ND	----	0.00292	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00292	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00585	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>126%</i>		<i>70 - 140 %</i>	"				"
<i>Toluene-d8</i>			<i>101%</i>		<i>70 - 130 %</i>	"				"
<i>4-BFB</i>			<i>109%</i>		<i>70 - 130 %</i>	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/15/09 13:54

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0147-01 (Area1-J11-9)		Soil								Sampled: 04/14/09 08:00
Dry Weight	BSOPSP003R0 8	82.0	----	1.00	%	1x	9D14020	04/14/09 16:19	04/15/09 00:00	
BSD0147-02 (Area1-J12-9)		Soil								Sampled: 04/14/09 08:15
Dry Weight	BSOPSP003R0 8	79.8	----	1.00	%	1x	9D14020	04/14/09 16:19	04/15/09 00:00	
BSD0147-03 (Area1-J13-9)		Soil								Sampled: 04/14/09 09:00
Dry Weight	BSOPSP003R0 8	82.6	----	1.00	%	1x	9D14020	04/14/09 16:19	04/15/09 00:00	
BSD0147-04 (Area1-J14-9)		Soil								Sampled: 04/14/09 09:15
Dry Weight	BSOPSP003R0 8	84.3	----	1.00	%	1x	9D14020	04/14/09 16:19	04/15/09 00:00	
BSD0147-05 (Area1-J15-9)		Soil								Sampled: 04/14/09 09:30
Dry Weight	BSOPSP003R0 8	82.8	----	1.00	%	1x	9D14020	04/14/09 16:19	04/15/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/15/09 13:54
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14042 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D14042-BLK1)

Extracted: 04/14/09 16:56

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/14/09 19:02	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.3%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/14/09 19:02</i>	

LCS (9D14042-BS1)

Extracted: 04/14/09 16:56

Gasoline Range Hydrocarbons	NWTPH-Gx	49.7	1.40	5.00	mg/kg wet	1x	--	50.0	99.4%	(80-120)	--	--	04/14/09 19:35	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.3%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/14/09 19:35</i>	

Duplicate (9D14042-DUP1)

QC Source: BSD0147-01

Extracted: 04/14/09 16:56

Gasoline Range Hydrocarbons	NWTPH-Gx	2.18	1.60	5.71	mg/kg dry	1x	4.73	--	--	--	73.9% (40)	--	04/14/09 23:18	R4, J
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 117%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/14/09 23:18</i>	

Matrix Spike (9D14042-MS1)

QC Source: BSD0147-01

Extracted: 04/14/09 16:56

Gasoline Range Hydrocarbons	NWTPH-Gx	60.3	1.60	5.71	mg/kg dry	1x	4.73	46.1	120%	(75-130)	--	--	04/14/09 23:50	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 122%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/14/09 23:50</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/15/09 13:54
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14037 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D14037-BLK1)

Extracted: 04/14/09 16:19

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/14/09 18:40	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/14/09 18:40</i>	
<i>Octacosane</i>			<i>112%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D14037-BS1)

Extracted: 04/14/09 16:19

Lube Oil	NWTPH-Dx	59.8	---	25.0	mg/kg wet	1x	--	66.7	89.7%	(63-125)	--	--	04/14/09 19:03	
Diesel Range Hydrocarbons	"	69.7	---	10.0	"	"	--	"	105%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/14/09 19:03</i>	
<i>Octacosane</i>			<i>107%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D14037-DUP1)

QC Source: BSD0147-01

Extracted: 04/14/09 16:19

Lube Oil	NWTPH-Dx	ND	---	30.5	mg/kg dry	1x	ND	--	--	--	(50)	--	04/14/09 19:27	R4
Kerosene	"	ND	---	12.2	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.2	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/14/09 19:27</i>	
<i>Octacosane</i>			<i>109%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D14037-MS1)

QC Source: BSD0147-01

Extracted: 04/14/09 16:19

Lube Oil	NWTPH-Dx	75.6	---	30.0	mg/kg dry	1x	ND	79.9	94.5%	(26-150)	--	--	04/14/09 19:50	
Diesel Range Hydrocarbons	"	89.6	---	12.0	"	"	ND	"	112%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/14/09 19:50</i>	
<i>Octacosane</i>			<i>107%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/15/09 13:54
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14051	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D14051-BLK1)								Extracted: 04/14/09 21:37						
Lead	EPA 6020	ND	---	0.505	mg/kg wet	1x	--	--	--	--	--	--	04/15/09 09:08	
LCS (9D14051-BS1)								Extracted: 04/14/09 21:37						
Lead	EPA 6020	37.3	---	0.490	mg/kg wet	1x	--	39.2	95.2%	(80-120)	--	--	04/15/09 09:15	
Duplicate (9D14051-DUP1)				QC Source: BSD0147-01				Extracted: 04/14/09 21:37						
Lead	EPA 6020	2.09	---	0.610	mg/kg dry	1x	1.60	--	--	--	26.3% (20)	--	04/15/09 09:53	R3
Matrix Spike (9D14051-MS1)				QC Source: BSD0147-01				Extracted: 04/14/09 21:37						
Lead	EPA 6020	48.3	---	0.598	mg/kg dry	1x	1.60	47.8	97.6%	(75-125)	--	--	04/15/09 09:27	
Post Spike (9D14051-PS1)				QC Source: BSD0147-01				Extracted: 04/14/09 21:37						
Lead	EPA 6020	0.101	---		ug/ml	1x	0.00258	0.100	98.2%	(80-120)	--	--	04/15/09 09:21	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/15/09 13:54
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14041 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D14041-BLK1)

Extracted: 04/14/09 19:56

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/14/09 21:02	C
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/15/09 13:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14041 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D14041-BLK1)													Extracted: 04/14/09 19:56	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/14/09 21:02	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>130%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>							<i>04/14/09 21:02</i>	
	<i>Toluene-d8</i>		<i>94.9%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>100%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/15/09 13:54
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14041 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D14041-BS1)													Extracted: 04/14/09 19:56	
Acetone	EPA 8260B	0.631	---	0.0400	mg/kg wet	1x	--	0.500	126%	(60-140)	--	--	04/14/09 20:11	C8
Benzene	"	0.0432	---	0.00150	"	"	--	0.0500	86.4%	(70-125)	--	--	"	
2-Butanone	"	0.514	---	0.0300	"	"	--	0.500	103%	(60-140)	--	--	"	
Carbon disulfide	"	0.0434	---	0.00300	"	"	--	0.0500	86.9%	(70-130)	--	--	"	
Chlorobenzene	"	0.0419	---	0.00200	"	"	--	"	83.8%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0450	---	0.00200	"	"	--	"	90.0%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0435	---	0.00300	"	"	--	"	87.0%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0447	---	0.00300	"	"	--	"	89.5%	(75-125)	--	--	"	
Ethylbenzene	"	0.0435	---	0.00400	"	"	--	"	86.9%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0447	---	0.0100	"	"	--	"	89.4%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.580	---	0.0300	"	"	--	0.500	116%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0405	---	0.00200	"	"	--	0.0500	81.0%	(70-125)	--	--	"	
Toluene	"	0.0413	---	0.00150	"	"	--	"	82.7%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0436	---	0.00250	"	"	--	"	87.2%	(70-130)	--	--	"	
Trichloroethene	"	0.0425	---	0.00250	"	"	--	"	84.9%	(70-125)	--	--	"	
Total Xylenes	"	0.131	---	0.0100	"	"	--	0.150	87.3%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 112%</i>	<i>Limits: 70-140%</i>										<i>04/14/09 20:11</i>	
<i>Toluene-d8</i>		<i>101%</i>	<i>70-130%</i>										<i>"</i>	
<i>4-BFB</i>		<i>98.2%</i>	<i>70-130%</i>										<i>"</i>	

LCS Dup (9D14041-BSD1)													Extracted: 04/14/09 19:56	
Acetone	EPA 8260B	0.530	---	0.0400	mg/kg wet	1x	--	0.500	106%	(60-140)	17.4% (30)		04/14/09 20:36	C8
Benzene	"	0.0434	---	0.00150	"	"	--	0.0500	86.7%	(70-125)	0.300%	"	"	
2-Butanone	"	0.460	---	0.0300	"	"	--	0.500	92.0%	(60-140)	11.2%	"	"	
Carbon disulfide	"	0.0448	---	0.00300	"	"	--	0.0500	89.6%	(70-130)	3.13%	"	"	
Chlorobenzene	"	0.0426	---	0.00200	"	"	--	"	85.1%	(70-125)	1.56%	"	"	
1,1-Dichloroethane	"	0.0451	---	0.00200	"	"	--	"	90.1%	(75-125)	0.133%	"	"	
1,1-Dichloroethene	"	0.0438	---	0.00300	"	"	--	"	87.7%	(70-130)	0.710%	"	"	
cis-1,2-Dichloroethene	"	0.0441	---	0.00300	"	"	--	"	88.3%	(75-125)	1.35%	"	"	
Ethylbenzene	"	0.0443	---	0.00400	"	"	--	"	88.7%	(70-125)	2.00%	"	"	
Hexachlorobutadiene	"	0.0462	---	0.0100	"	"	--	"	92.3%	(70-130)	3.17%	"	"	
4-Methyl-2-pentanone	"	0.517	---	0.0300	"	"	--	0.500	103%	(60-140)	11.5%	"	"	
Tetrachloroethene	"	0.0415	---	0.00200	"	"	--	0.0500	83.0%	(70-125)	2.41%	"	"	
Toluene	"	0.0413	---	0.00150	"	"	--	"	82.5%	"	0.170%	"	"	
1,1,1-Trichloroethane	"	0.0442	---	0.00250	"	"	--	"	88.4%	(70-130)	1.39%	"	"	
Trichloroethene	"	0.0429	---	0.00250	"	"	--	"	85.7%	(70-125)	0.937%	"	"	
Total Xylenes	"	0.132	---	0.0100	"	"	--	0.150	88.1%	(70-130)	0.920%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 104%</i>	<i>Limits: 70-140%</i>										<i>04/14/09 20:36</i>	
<i>Toluene-d8</i>		<i>95.8%</i>	<i>70-130%</i>										<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/15/09 13:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9D14041

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9D14041-BSD1)

Extracted: 04/14/09 19:56

Surrogate(s): 4-BFB

Recovery: 101%

Limits: 70-130% 1x

04/14/09 20:36

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/15/09 13:54
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D14020 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D14020-BLK1)										Extracted: 04/14/09 16:19				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/15/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/15/09 13:54

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/15/09 13:54

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302
 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA00147**

CLIENT: **Concrete Pithead**
 REPORT TO: **WMEP Staff**
 ADDRESS:
 PHONE: FAX:
 PROJECT NAME: **WMEP Phase II**
 PROJECT NUMBER:
 SAMPLED BY: **MATTHEW MCKIBBIN**

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	INVOICE TO:	TURNAROUND REQUEST
1 AREA1-511-9	4-14-09 / 0800	CP	10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> STD. Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses STD. 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <input type="checkbox"/> OTHER Specify: 24 hr
2 " -512-9	" / 0815		
3 " -513-9	" / 0900		
4 " -514-9	" / 0915		
5 " -515-9	" / 0930		
6			
7			
8			
9			
10			

REQUESTED ANALYSES

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
S	4	Silty Sand PID=0	01
	1	Silty Sand Clay	02
	1	Silty Sand Clay	03
	1	Silty Sand Clay	04
	1	Silty Sand Clay	05

* Turnaround Requests less than standard may incur Rush Charges.

RECEIVED BY: **For J** DATE: **4/14/09**
 PRINT NAME: **Francisco Lang, Jr.** FIRM: **TASEA** TIME: **1530**
 RECEIVED BY: DATE: TIME:
 PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:
*** W/ Naphtalen + WTR**

RECEIVED BY: **For J** DATE: **4-14-09**
 PRINT NAME: **Francisco Lang, Jr.** FIRM: **TASEA** TIME: **1530**
 RECEIVED BY: DATE: TIME:
 PRINT NAME: FIRM: TIME:

TEMP: **3.8 C** w/o
 @ Lab 1600

PAGE 1 OF 1
 TAL-1000(0408)

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances? Circle Y or N (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ (applies to temp at receipt) Logged-in By: _____ Unpacked/Labeled By: _____ Cooler ID: _____
 Date: 4/14/09 Date: 4/14 Date: 4/14 Work Order No. B000147
 Time: 1600 Time: 16:12 Time: 16:20 Client: _____
 Initials: FL Initials: CL Initials: CL Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ _____ Foam Packs _____
 _____ None/Other _____ None _____ _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ _____ Fed Ex _____ Client
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier
 _____ None/Other _____ Initial/date/time _____ _____ DHL _____ Mid Valley
 _____ Servoy _____ TDP
 _____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 3.6 °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ ID _____
 Intact? Y or N _____ Metals Preserved? Y or N or NA na
 Provided by TA? Y or N _____ Client QAPP Preserved? Y or N or NA
 Correct Type? Y or N _____ Adequate Volume? Y or N _____
 (for tests requested)
 #Containers match COC? Y or N _____ Water VOAs: Headspace? Y or N or NA
 IDs/time/date match COC? Y or N _____ Comments: _____
 Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete
 Comments, Problems _____

Total access set up? _____ Y or N
 Has client been contacted regarding non-conformances? _____ Y or N If Y, _____ / _____ Date Time
 PM Initials: _____ Date: _____ Time: _____

April 18, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/15/09 15:15.
The following list is a summary of the Work Orders contained in this report, generated on 04/18/09
09:42.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0158	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-H12-9	BSD0158-01	Soil	04/15/09 07:35	04/15/09 15:15
Area1-I15-9	BSD0158-02	Soil	04/15/09 08:00	04/15/09 15:15
Area1-B10-14	BSD0158-03	Soil	04/15/09 09:50	04/15/09 15:15
Area1-C10-14	BSD0158-04	Soil	04/15/09 10:00	04/15/09 15:15
Area1-C11-14	BSD0158-05	Soil	04/15/09 10:10	04/15/09 15:15
Area1-F12-9	BSD0158-06	Soil	04/15/09 10:20	04/15/09 15:15
Area1-E11-9	BSD0158-07	Soil	04/15/09 10:30	04/15/09 15:15
Area1-D11-9	BSD0158-08	Soil	04/15/09 10:40	04/15/09 15:15
DUP-5	BSD0158-09	Soil	04/15/09 14:40	04/15/09 15:15
Area1-H15-9	BSD0158-10	Soil	04/15/09 13:00	04/15/09 15:15
Area1-G15-9	BSD0158-11	Soil	04/15/09 13:50	04/15/09 15:15
Area1-F15-9	BSD0158-12	Soil	04/15/09 14:20	04/15/09 15:15

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-01 (Area1-H12-9)		Soil		Sampled: 04/15/09 07:35						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	11.8	42.2	mg/kg dry	1x	9D15043	04/15/09 15:39	04/15/09 22:01	
Surrogate(s): 4-BFB (FID)			169%		75 - 140 %	"				ZX
BSD0158-01RE1 (Area1-H12-9)		Soil		Sampled: 04/15/09 07:35						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	9.60	34.3	mg/kg dry	1x	9D16032	04/16/09 12:35	04/16/09 14:29	MI
Surrogate(s): 4-BFB (FID)			214%		75 - 140 %	"				ZX
BSD0158-02 (Area1-I15-9)		Soil		Sampled: 04/15/09 08:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.59	9.26	mg/kg dry	1x	9D15043	04/15/09 15:39	04/15/09 22:33	
Surrogate(s): 4-BFB (FID)			136%		75 - 140 %	"				
BSD0158-03 (Area1-B10-14)		Soil		Sampled: 04/15/09 09:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.93	6.91	mg/kg dry	1x	9D15043	04/15/09 15:39	04/15/09 23:05	
Surrogate(s): 4-BFB (FID)			121%		75 - 140 %	"				
BSD0158-04 (Area1-C10-14)		Soil		Sampled: 04/15/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.87	6.66	mg/kg dry	1x	9D15043	04/15/09 15:39	04/15/09 23:37	
Surrogate(s): 4-BFB (FID)			119%		75 - 140 %	"				
BSD0158-05 (Area1-C11-14)		Soil		Sampled: 04/15/09 10:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.84	6.57	mg/kg dry	1x	9D15043	04/15/09 15:39	04/16/09 02:17	
Surrogate(s): 4-BFB (FID)			124%		75 - 140 %	"				
BSD0158-06 (Area1-F12-9)		Soil		Sampled: 04/15/09 10:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	44.6	14.2	50.7	mg/kg dry	1x	9D15043	04/15/09 15:39	04/16/09 02:48	J
Surrogate(s): 4-BFB (FID)			147%		75 - 140 %	"				ZX
BSD0158-06RE1 (Area1-F12-9)		Soil		Sampled: 04/15/09 10:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	21.3	8.64	30.9	mg/kg dry	1x	9D16032	04/16/09 12:35	04/16/09 15:01	J
Surrogate(s): 4-BFB (FID)			208%		75 - 140 %	"				ZX

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-07 (Area1-E11-9)		Soil		Sampled: 04/15/09 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	9.63	2.81	10.1	mg/kg dry	1x	9D15043	04/15/09 15:39	04/16/09 03:20	J
Surrogate(s): 4-BFB (FID)			129%		75 - 140 %	"			"	
BSD0158-08 (Area1-D11-9)		Soil		Sampled: 04/15/09 10:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.22	7.94	mg/kg dry	1x	9D15043	04/15/09 15:39	04/16/09 03:52	
Surrogate(s): 4-BFB (FID)			120%		75 - 140 %	"			"	
BSD0158-09 (DUP-5)		Soil		Sampled: 04/15/09 14:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.76	6.27	mg/kg dry	1x	9D15043	04/15/09 15:39	04/16/09 04:24	
Surrogate(s): 4-BFB (FID)			124%		75 - 140 %	"			"	
BSD0158-10 (Area1-H15-9)		Soil		Sampled: 04/15/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.46	5.21	mg/kg dry	1x	9D15043	04/15/09 15:39	04/16/09 04:56	
Surrogate(s): 4-BFB (FID)			125%		75 - 140 %	"			"	
BSD0158-11 (Area1-G15-9)		Soil		Sampled: 04/15/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.60	5.73	mg/kg dry	1x	9D15043	04/15/09 15:39	04/16/09 05:28	
Surrogate(s): 4-BFB (FID)			112%		75 - 140 %	"			"	
BSD0158-12 (Area1-F15-9)		Soil		Sampled: 04/15/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.42	5.09	mg/kg dry	1x	9D15043	04/15/09 15:39	04/16/09 06:00	
Surrogate(s): 4-BFB (FID)			118%		75 - 140 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-01 (Area1-H12-9)		Soil			Sampled: 04/15/09 07:35					
Kerosene	NWTPH-Dx	1040	----	47.6	mg/kg dry	1x	9D15025	04/15/09 15:30	04/15/09 23:55	A-01
Diesel Range Hydrocarbons	"	4680	----	47.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.2%		54 - 148 %	"				"
<i>Octacosane</i>			78.9%		62 - 142 %	"				"
BSD0158-01RE1 (Area1-H12-9)		Soil			Sampled: 04/15/09 07:35					
Lube Oil	NWTPH-Dx	11300	----	1190	mg/kg dry	10x	9D15025	04/15/09 15:30	04/16/09 11:28	Q1
<i>Surrogate(s): 2-FBP</i>			82.3%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSD0158-02 (Area1-I15-9)		Soil			Sampled: 04/15/09 08:00					
Lube Oil	NWTPH-Dx	ND	----	39.0	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 00:16	
Kerosene	"	ND	----	15.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	15.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			91.6%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"
BSD0158-03 (Area1-B10-14)		Soil			Sampled: 04/15/09 09:50					
Lube Oil	NWTPH-Dx	ND	----	32.1	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 00:37	
Kerosene	"	ND	----	12.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.1%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"
BSD0158-04 (Area1-C10-14)		Soil			Sampled: 04/15/09 10:00					
Lube Oil	NWTPH-Dx	ND	----	32.1	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 00:59	
Kerosene	"	ND	----	12.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.7%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-05 (Area1-C11-14)		Soil		Sampled: 04/15/09 10:10						
Lube Oil	NWTPH-Dx	ND	----	32.5	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 02:46	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.1%		54 - 148 %	"				"
<i>Octacosane</i>			113%		62 - 142 %	"				"
BSD0158-06 (Area1-F12-9)		Soil		Sampled: 04/15/09 10:20						
Lube Oil	NWTPH-Dx	436	----	107	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 03:08	Q1
Kerosene	"	369	----	42.8	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	747	----	42.8	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			92.2%		54 - 148 %	"				"
<i>Octacosane</i>			108%		62 - 142 %	"				"
BSD0158-07 (Area1-E11-9)		Soil		Sampled: 04/15/09 10:30						
Kerosene	NWTPH-Dx	420	----	15.2	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 03:29	A-01
Diesel Range Hydrocarbons	"	1260	----	15.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			94.5%		54 - 148 %	"				"
<i>Octacosane</i>			96.0%		62 - 142 %	"				"
BSD0158-07RE1 (Area1-E11-9)		Soil		Sampled: 04/15/09 10:30						
Lube Oil	NWTPH-Dx	1780	----	190	mg/kg dry	5x	9D15025	04/15/09 15:30	04/16/09 11:50	Q1
<i>Surrogate(s): 2-FBP</i>			94.6%		54 - 148 %	"				"
<i>Octacosane</i>			118%		62 - 142 %	"				"
BSD0158-08 (Area1-D11-9)		Soil		Sampled: 04/15/09 10:40						
Lube Oil	NWTPH-Dx	57.9	----	33.0	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 03:51	Q1
Kerosene	"	14.3	----	13.2	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	46.8	----	13.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			89.0%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-09 (DUP-5)		Soil			Sampled: 04/15/09 14:40					
Lube Oil	NWTPH-Dx	ND	----	32.6	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 04:12	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	22.4	----	13.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			97.3%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"
BSD0158-10 (Area1-H15-9)		Soil			Sampled: 04/15/09 13:00					
Lube Oil	NWTPH-Dx	ND	----	31.1	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 04:33	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			88.9%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0158-11 (Area1-G15-9)		Soil			Sampled: 04/15/09 13:50					
Lube Oil	NWTPH-Dx	ND	----	29.9	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 04:55	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			82.7%		54 - 148 %	"				"
<i>Octacosane</i>			101%		62 - 142 %	"				"
BSD0158-12 (Area1-F15-9)		Soil			Sampled: 04/15/09 14:20					
Lube Oil	NWTPH-Dx	ND	----	29.8	mg/kg dry	1x	9D15025	04/15/09 15:30	04/16/09 05:16	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.2%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-01RE1 (Area1-H12-9)		Soil		Sampled: 04/15/09 07:35						
Lead	EPA 6020	1010	----	3.45	mg/kg dry	2x	9D16002	04/16/09 05:03	04/16/09 09:44	R3, MHA
BSD0158-02 (Area1-I15-9)		Soil		Sampled: 04/15/09 08:00						
Lead	EPA 6020	3.40	----	0.597	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 08:22	
BSD0158-03 (Area1-B10-14)		Soil		Sampled: 04/15/09 09:50						
Lead	EPA 6020	4.36	----	0.408	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 08:47	
BSD0158-04 (Area1-C10-14)		Soil		Sampled: 04/15/09 10:00						
Lead	EPA 6020	4.10	----	0.475	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 08:54	
BSD0158-05 (Area1-C11-14)		Soil		Sampled: 04/15/09 10:10						
Lead	EPA 6020	4.19	----	0.466	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 09:00	
BSD0158-06 (Area1-F12-9)		Soil		Sampled: 04/15/09 10:20						
Lead	EPA 6020	164	----	1.79	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 09:06	
BSD0158-07 (Area1-E11-9)		Soil		Sampled: 04/15/09 10:30						
Lead	EPA 6020	80.2	----	0.404	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 09:13	
BSD0158-08 (Area1-D11-9)		Soil		Sampled: 04/15/09 10:40						
Lead	EPA 6020	10.5	----	0.459	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 09:19	
BSD0158-09 (DUP-5)		Soil		Sampled: 04/15/09 14:40						
Lead	EPA 6020	13.1	----	0.452	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 10:10	
BSD0158-10 (Area1-H15-9)		Soil		Sampled: 04/15/09 13:00						
Lead	EPA 6020	1.54	----	0.409	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 10:16	
BSD0158-11 (Area1-G15-9)		Soil		Sampled: 04/15/09 13:50						
Lead	EPA 6020	2.05	----	0.374	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 10:22	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-12	(Area1-F15-9)									
			Soil				Sampled: 04/15/09 14:20			
Lead	EPA 6020	1.47	----	0.339	mg/kg dry	1x	9D16002	04/16/09 05:03	04/16/09 10:28	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-01 (Area1-H12-9)		Soil		Sampled: 04/15/09 07:35						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:08	
BSD0158-06 (Area1-F12-9)		Soil		Sampled: 04/15/09 10:20						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D17012	04/17/09 11:40	04/17/09 17:54	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/18/09 09:42

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-01 (Area1-H12-9)		Soil		Sampled: 04/15/09 07:35						
Benzene	EPA 8260B	ND	----	0.00537	mg/kg dry	1x	9D15035	04/15/09 17:00	04/15/09 17:22	
Ethylbenzene	"	ND	----	0.0143	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00358	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.0358	"	"	"	"	"	I2
Toluene	"	ND	----	0.00537	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0179	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0179	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0358	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			130%		70 - 140 %	"			"	
<i>Toluene-d8</i>			117%		70 - 130 %	"			"	I2
<i>4-BFB</i>			136%		70 - 130 %	"			"	Z1, I2
BSD0158-02RE1 (Area1-I15-9)		Soil		Sampled: 04/15/09 08:00						
Benzene	EPA 8260B	ND	----	0.00150	mg/kg dry	1x	9D16009	04/16/09 08:26	04/16/09 11:28	
Ethylbenzene	"	ND	----	0.00400	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.00100	"	"	"	"	"	
Naphthalene	"	ND	----	0.0100	"	"	"	"	"	I
Toluene	"	ND	----	0.00150	"	"	"	"	"	I
o-Xylene	"	ND	----	0.00500	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.00500	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.0100	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			131%		70 - 140 %	"			"	
<i>Toluene-d8</i>			106%		70 - 130 %	"			"	I
<i>4-BFB</i>			122%		70 - 130 %	"			"	I
BSD0158-03 (Area1-B10-14)		Soil		Sampled: 04/15/09 09:50						
Benzene	EPA 8260B	ND	----	0.00106	mg/kg dry	1x	9D15035	04/15/09 17:00	04/15/09 18:12	
Ethylbenzene	"	ND	----	0.00282	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000706	"	"	"	"	"	
Naphthalene	"	ND	----	0.00706	"	"	"	"	"	
Toluene	"	ND	----	0.00106	"	"	"	"	"	
o-Xylene	"	ND	----	0.00353	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00353	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00706	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			127%		70 - 140 %	"			"	
<i>Toluene-d8</i>			96.6%		70 - 130 %	"			"	
<i>4-BFB</i>			106%		70 - 130 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0158-04 (Area1-C10-14)		Soil		Sampled: 04/15/09 10:00							
Benzene	EPA 8260B	ND	----	0.00105	mg/kg dry	1x	9D15035	04/15/09 17:00	04/15/09 18:38		
Ethylbenzene	"	ND	----	0.00281	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000703	"	"	"	"	"		
Naphthalene	"	ND	----	0.00703	"	"	"	"	"		
Toluene	"	ND	----	0.00105	"	"	"	"	"		
o-Xylene	"	ND	----	0.00351	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00351	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00703	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				125%		70 - 140 %	"			"	
<i>Toluene-d8</i>				97.8%		70 - 130 %	"			"	
<i>4-BFB</i>				106%		70 - 130 %	"			"	
BSD0158-05 (Area1-C11-14)		Soil		Sampled: 04/15/09 10:10							P13
Benzene	EPA 8260B	ND	----	0.000775	mg/kg dry	1x	9D15035	04/15/09 17:00	04/15/09 19:03		
Ethylbenzene	"	ND	----	0.00207	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000517	"	"	"	"	"		
Naphthalene	"	ND	----	0.00517	"	"	"	"	"		
Toluene	"	ND	----	0.000775	"	"	"	"	"		
o-Xylene	"	ND	----	0.00258	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00258	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00517	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				118%		70 - 140 %	"			"	
<i>Toluene-d8</i>				98.9%		70 - 130 %	"			"	
<i>4-BFB</i>				110%		70 - 130 %	"			"	
BSD0158-06 (Area1-F12-9)		Soil		Sampled: 04/15/09 10:20							
Ethylbenzene	EPA 8260B	ND	----	0.0108	mg/kg dry	1x	9D15035	04/15/09 17:00	04/15/09 19:28	I2	
Methyl tert-butyl ether	"	ND	----	0.00270	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				111%		70 - 140 %	"			I2	
<i>Toluene-d8</i>				134%		70 - 130 %	"			Z1, I2	
<i>4-BFB</i>				135%		70 - 130 %	"			ZX, I2	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-07 (Area1-E11-9)		Soil		Sampled: 04/15/09 10:30						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000849	mg/kg dry	1x	9D15035	04/15/09 17:00	04/15/09 19:54	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>135%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>Toluene-d8</i>			<i>126%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>157%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>ZX, I2</i>
BSD0158-08RE1 (Area1-D11-9)		Soil		Sampled: 04/15/09 10:40						
Benzene	EPA 8260B	ND	----	0.000787	mg/kg dry	1x	9D16009	04/16/09 08:26	04/16/09 11:53	
Ethylbenzene	"	ND	----	0.00210	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.000525	"	"	"	"	"	
Naphthalene	"	ND	----	0.00525	"	"	"	"	"	I
Toluene	"	ND	----	0.000787	"	"	"	"	"	I
o-Xylene	"	ND	----	0.00262	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.00262	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.00525	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>124%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>104%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I</i>
<i>4-BFB</i>			<i>117%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I</i>
BSD0158-09 (DUP-5)		Soil		Sampled: 04/15/09 14:40						
Benzene	EPA 8260B	ND	----	0.000837	mg/kg dry	1x	9D15035	04/15/09 17:00	04/15/09 20:45	
Ethylbenzene	"	ND	----	0.00223	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000558	"	"	"	"	"	
Naphthalene	"	ND	----	0.00558	"	"	"	"	"	
Toluene	"	ND	----	0.000837	"	"	"	"	"	
o-Xylene	"	ND	----	0.00279	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00279	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00558	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>117%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>104%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>114%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/18/09 09:42

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-10RE1 (Area1-H15-9)		Soil		Sampled: 04/15/09 13:00						P13
Benzene	EPA 8260B	ND	----	0.000740	mg/kg dry	1x	9D16009	04/16/09 08:26	04/16/09 12:18	
Ethylbenzene	"	ND	----	0.00197	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000493	"	"	"	"	"	
Naphthalene	"	ND	----	0.00493	"	"	"	"	"	
Toluene	"	ND	----	0.000740	"	"	"	"	"	
o-Xylene	"	ND	----	0.00247	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00247	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00493	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				129%		70 - 140 %	"			"
<i>Toluene-d8</i>				100%		70 - 130 %	"			"
<i>4-BFB</i>				108%		70 - 130 %	"			"
BSD0158-11 (Area1-G15-9)		Soil		Sampled: 04/15/09 13:50						P13
Benzene	EPA 8260B	ND	----	0.000791	mg/kg dry	1x	9D15035	04/15/09 17:00	04/15/09 21:36	
Ethylbenzene	"	ND	----	0.00211	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000527	"	"	"	"	"	
Naphthalene	"	ND	----	0.00527	"	"	"	"	"	
Toluene	"	ND	----	0.000791	"	"	"	"	"	
o-Xylene	"	0.00657	----	0.00264	"	"	"	"	"	
m,p-Xylene	"	0.00730	----	0.00264	"	"	"	"	"	
Total Xylenes	"	0.0139	----	0.00527	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				120%		70 - 140 %	"			"
<i>Toluene-d8</i>				97.5%		70 - 130 %	"			"
<i>4-BFB</i>				101%		70 - 130 %	"			"
BSD0158-12 (Area1-F15-9)		Soil		Sampled: 04/15/09 14:20						P13
Benzene	EPA 8260B	ND	----	0.000777	mg/kg dry	1x	9D15035	04/15/09 17:00	04/15/09 22:01	
Ethylbenzene	"	ND	----	0.00207	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000518	"	"	"	"	"	
Naphthalene	"	ND	----	0.00518	"	"	"	"	"	
Toluene	"	ND	----	0.000777	"	"	"	"	"	
o-Xylene	"	ND	----	0.00259	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00259	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00518	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				118%		70 - 140 %	"			"
<i>Toluene-d8</i>				98.4%		70 - 130 %	"			"
<i>4-BFB</i>				102%		70 - 130 %	"			"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-06 (Area1-F12-9)		Soil		Sampled: 04/15/09 10:20						
Benzene	EPA 8260B	ND	0.101	0.203	mg/kg dry	1x	9D15033	04/15/09 16:00	04/15/09 19:45	
Naphthalene	"	ND	11.2	20.3	"	"	"	"	"	
Toluene	"	ND	0.101	1.01	"	"	"	"	"	
o-Xylene	"	ND	0.173	1.01	"	"	"	"	"	
m,p-Xylene	"	0.213	0.213	2.03	"	"	"	"	"	J
Xylenes (total)	"	ND	0.315	3.04	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			98.5%		75 - 125 %	"			"	
<i>Toluene-d8</i>			97.4%		75 - 125 %	"			"	
<i>4-BFB</i>			96.0%		75 - 125 %	"			"	

BSD0158-07 (Area1-E11-9)		Soil		Sampled: 04/15/09 10:30						
Benzene	EPA 8260B	0.131	0.0201	0.0402	mg/kg dry	1x	9D15033	04/15/09 16:00	04/15/09 20:12	
Ethylbenzene	"	0.0563	0.0241	0.201	"	"	"	"	"	J
Naphthalene	"	ND	2.21	4.02	"	"	"	"	"	
Toluene	"	0.0422	0.0201	0.201	"	"	"	"	"	J
o-Xylene	"	0.0382	0.0342	0.201	"	"	"	"	"	J
m,p-Xylene	"	0.141	0.0422	0.402	"	"	"	"	"	J
Xylenes (total)	"	0.179	0.0623	0.603	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			102%		75 - 125 %	"			"	
<i>Toluene-d8</i>			95.3%		75 - 125 %	"			"	
<i>4-BFB</i>			96.8%		75 - 125 %	"			"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-01 (Area1-H12-9)		Soil								Sampled: 04/15/09 07:35
Dry Weight	BSOPSPLO03R0 8	21.0	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-02 (Area1-I15-9)		Soil								Sampled: 04/15/09 08:00
Dry Weight	BSOPSPLO03R0 8	63.4	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-03 (Area1-B10-14)		Soil								Sampled: 04/15/09 09:50
Dry Weight	BSOPSPLO03R0 8	76.6	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-04 (Area1-C10-14)		Soil								Sampled: 04/15/09 10:00
Dry Weight	BSOPSPLO03R0 8	77.4	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-05 (Area1-C11-14)		Soil								Sampled: 04/15/09 10:10
Dry Weight	BSOPSPLO03R0 8	76.7	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-06 (Area1-F12-9)		Soil								Sampled: 04/15/09 10:20
Dry Weight	BSOPSPLO03R0 8	23.1	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-07 (Area1-E11-9)		Soil								Sampled: 04/15/09 10:30
Dry Weight	BSOPSPLO03R0 8	65.5	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-08 (Area1-D11-9)		Soil								Sampled: 04/15/09 10:40
Dry Weight	BSOPSPLO03R0 8	75.1	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-09 (DUP-5)		Soil								Sampled: 04/15/09 14:40
Dry Weight	BSOPSPLO03R0 8	75.7	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-10 (Area1-H15-9)		Soil								Sampled: 04/15/09 13:00
Dry Weight	BSOPSPLO03R0 8	80.4	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-11 (Area1-G15-9)		Soil								Sampled: 04/15/09 13:50

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0158-11 (Area1-G15-9)										
		Soil								Sampled: 04/15/09 13:50
Dry Weight	BSOPSPLO03R0 8	83.6	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	
BSD0158-12 (Area1-F15-9)										
		Soil								Sampled: 04/15/09 14:20
Dry Weight	BSOPSPLO03R0 8	83.4	----	1.00	%	1x	9D15027	04/15/09 14:45	04/16/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D15043 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D15043-BLK1)													Extracted: 04/15/09 15:39			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/15/09 16:53			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.5%</i>		<i>Limits: 75-140%</i>		"								04/15/09 16:53		
LCS (9D15043-BS1)													Extracted: 04/15/09 15:39			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.2	1.40	5.00	mg/kg wet	1x	--	50.0	98.3%	(80-120)	--	--	04/15/09 17:25			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 75-140%</i>		"								04/15/09 17:25		
Duplicate (9D15043-DUP1)													QC Source: BSD0151-01		Extracted: 04/15/09 15:39	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.10	7.50	mg/kg dry	1x	ND	--	--	--	NR (40)		04/15/09 21:29			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 125%</i>		<i>Limits: 75-140%</i>		"								04/15/09 21:29		
Duplicate (9D15043-DUP2)													QC Source: BSD0158-04		Extracted: 04/15/09 15:39	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.87	6.66	mg/kg dry	1x	ND	--	--	--	NR (40)		04/16/09 00:09			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 123%</i>		<i>Limits: 75-140%</i>		"								04/16/09 00:09		
Matrix Spike (9D15043-MS1)													QC Source: BSD0151-01		Extracted: 04/15/09 15:39	
Gasoline Range Hydrocarbons	NWTPH-Gx	67.2	2.10	7.50	mg/kg dry	1x	ND	58.1	116%	(75-130)	--	--	04/16/09 00:41			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 124%</i>		<i>Limits: 75-140%</i>		"								04/16/09 00:41		

QC Batch: 9D16032 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D16032-BLK1)													Extracted: 04/16/09 12:35			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/16/09 13:24			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.2%</i>		<i>Limits: 75-140%</i>		"								04/16/09 13:24		
LCS (9D16032-BS1)													Extracted: 04/16/09 12:35			
Gasoline Range Hydrocarbons	NWTPH-Gx	48.5	1.40	5.00	mg/kg wet	1x	--	50.0	97.1%	(80-120)	--	--	04/16/09 13:56			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>		<i>Limits: 75-140%</i>		"								04/16/09 13:56		
Duplicate (9D16032-DUP1)													QC Source: BSD0158-01RE1		Extracted: 04/16/09 12:35	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	9.60	34.3	mg/kg dry	1x	ND	--	--	--	NR (40)		04/16/09 15:34			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 213%</i>		<i>Limits: 75-140%</i>		"								04/16/09 15:34	ZX	
Duplicate (9D16032-DUP2)													QC Source: BSD0166-01		Extracted: 04/16/09 12:35	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.94	6.93	mg/kg dry	1x	ND	--	--	--	NR (40)		04/17/09 01:47			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>		<i>Limits: 75-140%</i>		"								04/17/09 01:47		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16032 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Matrix Spike (9D16032-MS1)			QC Source: BSD0158-01RE1					Extracted: 04/16/09 12:35							
Gasoline Range Hydrocarbons	NWTPH-Gx	369	9.60	34.3	mg/kg dry	1x	ND	155	238%	(75-130)	--	--	04/16/09 16:06	MI	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 226%</i>		<i>Limits: 75-140%</i>		<i>"</i>							<i>04/16/09 16:06</i>	ZX	

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D15025 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D15025-BLK1)													Extracted: 04/15/09 15:30			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/15/09 21:47			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/15/09 21:47</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
LCS (9D15025-BS1)													Extracted: 04/15/09 15:30			
Lube Oil	NWTPH-Dx	73.8	---	25.0	mg/kg wet	1x	--	66.7	111%	(63-125)	--	--	04/15/09 22:08			
Diesel Range Hydrocarbons	"	77.9	---	10.0	"	"	--	"	117%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/15/09 22:08</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9D15025-DUP1)													QC Source: BSD0158-02		Extracted: 04/15/09 15:30	
Lube Oil	NWTPH-Dx	ND	---	39.3	mg/kg dry	1x	ND	--	--	--	16.8%	(50)	04/15/09 22:29			
Kerosene	"	ND	---	15.7	"	"	ND	--	--	--	"	"	"	R4		
Diesel Range Hydrocarbons	"	ND	---	15.7	"	"	ND	--	--	--	NR	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/15/09 22:29</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9D15025-DUP2)													QC Source: BSD0158-08		Extracted: 04/15/09 15:30	
Lube Oil	NWTPH-Dx	ND	---	32.7	mg/kg dry	1x	57.9	--	--	--	117%	(50)	04/15/09 22:51	R4		
Kerosene	"	ND	---	13.1	"	"	14.3	--	--	--	125%	"	"	R4		
Diesel Range Hydrocarbons	"	ND	---	13.1	"	"	46.8	--	--	--	122%	"	"	R4		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/15/09 22:51</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9D15025-MS1)													QC Source: BSD0158-02		Extracted: 04/15/09 15:30	
Lube Oil	NWTPH-Dx	105	---	39.0	mg/kg dry	1x	5.83	104	95.4%	(26-150)	--	--	04/15/09 23:12			
Diesel Range Hydrocarbons	"	104	---	15.6	"	"	ND	"	100%	(46-155)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>84.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/15/09 23:12</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D16002-BLK1)								Extracted: 04/16/09 05:03						
Lead	EPA 6020	ND	---	0.485	mg/kg wet	1x	--	--	--	--	--	--	04/16/09 07:44	
LCS (9D16002-BS1)								Extracted: 04/16/09 05:03						
Lead	EPA 6020	40.2	---	0.500	mg/kg wet	1x	--	40.0	100%	(80-120)	--	--	04/16/09 07:51	
Duplicate (9D16002-DUP2)				QC Source: BSD0158-01RE1				Extracted: 04/16/09 05:03						
Lead	EPA 6020	1260	---	3.60	mg/kg dry	2x	1010	--	--	--	21.6% (20)	--	04/16/09 09:38	R3
Matrix Spike (9D16002-MS2)				QC Source: BSD0158-01RE1				Extracted: 04/16/09 05:03						
Lead	EPA 6020	1050	---	3.78	mg/kg dry	2x	1010	151	25.9%	(75-125)	--	--	04/16/09 09:32	MHA
Post Spike (9D16002-PS2)				QC Source: BSD0158-01RE1				Extracted: 04/16/09 05:03						
Lead	EPA 6020	0.680	---		ug/ml	2x	0.588	0.100	91.5%	(80-120)	--	--	04/16/09 09:25	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D17012 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D17012-BLK1)								Extracted: 04/17/09 11:40						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/17/09 16:47	
Blank (9D17012-BLK2)								Extracted: 04/17/09 11:40						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/17/09 16:51	
LCS (9D17012-BS1)								Extracted: 04/17/09 11:40						
Lead	EPA 6010B	45.9	---	1.00	mg/l	1x	--	50.0	91.8%	(80-120)	--	--	04/17/09 16:55	
Duplicate (9D17012-DUP1)				QC Source: BSD0158-01				Extracted: 04/17/09 11:40						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	ND	--	--	--	2.96% (20)	--	04/17/09 16:58	
Matrix Spike (9D17012-MS1)				QC Source: BSD0158-01				Extracted: 04/17/09 11:40						
Lead	EPA 6010B	46.4	---	1.00	mg/l	1x	0.412	50.0	91.9%	(80-120)	--	--	04/17/09 17:01	
Post Spike (9D17012-PS1)				QC Source: BSD0158-01				Extracted: 04/17/09 11:40						
Lead	EPA 6010B	4.60	---		ug/ml	1x	0.0412	5.00	91.1%	(75-125)	--	--	04/17/09 17:05	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D15035 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D15035-BLK1)

Extracted: 04/15/09 13:30

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/15/09 15:58	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759381	04/18/09 09:42
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D15035 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (9D15035-BLK1)

Extracted: 04/15/09 13:30

Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/15/09 15:58	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 126%	Limits: 70-140%	"	04/15/09 15:58
Toluene-d8	94.6%	70-130%	"	"
4-BFB	103%	70-130%	"	"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/18/09 09:42

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D15035 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D15035-BS1)													Extracted: 04/15/09 13:30	
Acetone	EPA 8260B	0.495	---	0.0400	mg/kg wet	1x	--	0.500	98.9%	(60-140)	--	--	04/15/09 15:07	
Benzene	"	0.0454	---	0.00150	"	"	--	0.0500	90.8%	(70-125)	--	--	"	
2-Butanone	"	0.432	---	0.0300	"	"	--	0.500	86.4%	(60-140)	--	--	"	
Carbon disulfide	"	0.0458	---	0.00300	"	"	--	0.0500	91.7%	(70-130)	--	--	"	
Chlorobenzene	"	0.0455	---	0.00200	"	"	--	"	90.9%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0459	---	0.00200	"	"	--	"	91.9%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0455	---	0.00300	"	"	--	"	90.9%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0457	---	0.00300	"	"	--	"	91.5%	(75-125)	--	--	"	
Ethylbenzene	"	0.0470	---	0.00400	"	"	--	"	94.0%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0483	---	0.0100	"	"	--	"	96.6%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.497	---	0.0300	"	"	--	0.500	99.4%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0456	---	0.00200	"	"	--	0.0500	91.2%	(70-125)	--	--	"	
Toluene	"	0.0442	---	0.00150	"	"	--	"	88.3%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0470	---	0.00250	"	"	--	"	93.9%	(70-130)	--	--	"	
Trichloroethene	"	0.0466	---	0.00250	"	"	--	"	93.1%	(70-125)	--	--	"	
Total Xylenes	"	0.145	---	0.0100	"	"	--	0.150	96.6%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 103%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>04/15/09 15:07</i>		
<i>Toluene-d8</i>		<i>97.3%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>100%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9D15035-BSD1)

Extracted: 04/15/09 13:30

Acetone	EPA 8260B	0.558	---	0.0400	mg/kg wet	1x	--	0.500	112%	(60-140)	12.0% (30)		04/15/09 15:32	
Benzene	"	0.0454	---	0.00150	"	"	--	0.0500	90.7%	(70-125)	0.0661%	"	"	
2-Butanone	"	0.500	---	0.0300	"	"	--	0.500	100%	(60-140)	14.6%	"	"	
Carbon disulfide	"	0.0456	---	0.00300	"	"	--	0.0500	91.3%	(70-130)	0.459%	"	"	
Chlorobenzene	"	0.0464	---	0.00200	"	"	--	"	92.8%	(70-125)	2.00%	"	"	
1,1-Dichloroethane	"	0.0469	---	0.00200	"	"	--	"	93.8%	(75-125)	2.05%	"	"	
1,1-Dichloroethene	"	0.0461	---	0.00300	"	"	--	"	92.2%	(70-130)	1.38%	"	"	
cis-1,2-Dichloroethene	"	0.0468	---	0.00300	"	"	--	"	93.5%	(75-125)	2.21%	"	"	
Ethylbenzene	"	0.0477	---	0.00400	"	"	--	"	95.4%	(70-125)	1.52%	"	"	
Hexachlorobutadiene	"	0.0469	---	0.0100	"	"	--	"	93.8%	(70-130)	2.88%	"	"	
4-Methyl-2-pentanone	"	0.575	---	0.0300	"	"	--	0.500	115%	(60-140)	14.5%	"	"	
Tetrachloroethene	"	0.0458	---	0.00200	"	"	--	0.0500	91.7%	(70-125)	0.569%	"	"	
Toluene	"	0.0458	---	0.00150	"	"	--	"	91.6%	"	3.65%	"	"	
1,1,1-Trichloroethane	"	0.0476	---	0.00250	"	"	--	"	95.2%	(70-130)	1.33%	"	"	
Trichloroethene	"	0.0466	---	0.00250	"	"	--	"	93.2%	(70-125)	0.0859%	"	"	
Total Xylenes	"	0.145	---	0.0100	"	"	--	0.150	96.6%	(70-130)	0.0207%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 104%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>04/15/09 15:32</i>		
<i>Toluene-d8</i>		<i>98.1%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D15035 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS Dup (9D15035-BSD1) Extracted: 04/15/09 13:30
Surrogate(s): 4-BFB Recovery: 105% Limits: 70-130% 1x 04/15/09 15:32

QC Batch: 9D16009 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D16009-BLK1) Extracted: 04/16/09 08:26

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/16/09 11:02	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16009 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (9D16009-BLK1)

Extracted: 04/16/09 08:26

1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	121%	Limits:	70-140%	"	04/16/09 11:02
	Toluene-d8		95.1%		70-130%	"	"
	4-BFB		102%		70-130%	"	"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/18/09 09:42

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16009 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D16009-BS1)													Extracted: 04/16/09 08:26	
Acetone	EPA 8260B	0.607	---	0.0400	mg/kg wet	1x	--	0.500	121%	(60-140)	--	--	04/16/09 10:11	
Benzene	"	0.0478	---	0.00150	"	"	--	0.0500	95.6%	(70-125)	--	--	"	
2-Butanone	"	0.507	---	0.0300	"	"	--	0.500	101%	(60-140)	--	--	"	
Carbon disulfide	"	0.0554	---	0.00300	"	"	--	0.0500	111%	(70-130)	--	--	"	
Chlorobenzene	"	0.0456	---	0.00200	"	"	--	"	91.1%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0516	---	0.00200	"	"	--	"	103%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0539	---	0.00300	"	"	--	"	108%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0508	---	0.00300	"	"	--	"	102%	(75-125)	--	--	"	
Ethylbenzene	"	0.0485	---	0.00400	"	"	--	"	97.1%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0487	---	0.0100	"	"	--	"	97.5%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.593	---	0.0300	"	"	--	0.500	119%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0456	---	0.00200	"	"	--	0.0500	91.3%	(70-125)	--	--	"	
Toluene	"	0.0450	---	0.00150	"	"	--	"	89.9%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0543	---	0.00250	"	"	--	"	109%	(70-130)	--	--	"	
Trichloroethene	"	0.0473	---	0.00250	"	"	--	"	94.6%	(70-125)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 105%</i>		<i>Limits: 70-140%</i>	"								<i>04/16/09 10:11</i>	
<i>Toluene-d8</i>		<i>92.5%</i>		<i>70-130%</i>	"								<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>	"								<i>"</i>	

LCS Dup (9D16009-BSD1)

Extracted: 04/16/09 08:26

Acetone	EPA 8260B	0.577	---	0.0400	mg/kg wet	1x	--	0.500	115%	(60-140)	5.10% (30)		04/16/09 10:37	
Benzene	"	0.0442	---	0.00150	"	"	--	0.0500	88.4%	(70-125)	7.76%	"	"	
2-Butanone	"	0.528	---	0.0300	"	"	--	0.500	106%	(60-140)	4.09%	"	"	
Carbon disulfide	"	0.0458	---	0.00300	"	"	--	0.0500	91.6%	(70-130)	18.9%	"	"	
Chlorobenzene	"	0.0443	---	0.00200	"	"	--	"	88.6%	(70-125)	2.87%	"	"	
1,1-Dichloroethane	"	0.0455	---	0.00200	"	"	--	"	91.0%	(75-125)	12.6%	"	"	
1,1-Dichloroethene	"	0.0446	---	0.00300	"	"	--	"	89.1%	(70-130)	19.0%	"	"	
cis-1,2-Dichloroethene	"	0.0450	---	0.00300	"	"	--	"	90.0%	(75-125)	12.0%	"	"	
Ethylbenzene	"	0.0456	---	0.00400	"	"	--	"	91.1%	(70-125)	6.31%	"	"	
Hexachlorobutadiene	"	0.0460	---	0.0100	"	"	--	"	91.9%	(70-130)	5.87%	"	"	
4-Methyl-2-pentanone	"	0.577	---	0.0300	"	"	--	0.500	115%	(60-140)	2.76%	"	"	
Tetrachloroethene	"	0.0428	---	0.00200	"	"	--	0.0500	85.7%	(70-125)	6.31%	"	"	
Toluene	"	0.0427	---	0.00150	"	"	--	"	85.4%	"	5.16%	"	"	
1,1,1-Trichloroethane	"	0.0457	---	0.00250	"	"	--	"	91.5%	(70-130)	17.2%	"	"	
Trichloroethene	"	0.0449	---	0.00250	"	"	--	"	89.8%	(70-125)	5.27%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 106%</i>		<i>Limits: 70-140%</i>	"								<i>04/16/09 10:37</i>	
<i>Toluene-d8</i>		<i>94.6%</i>		<i>70-130%</i>	"								<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>	"								<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/18/09 09:42

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9D15033

Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D15033-BLK1)													Extracted: 04/15/09 13:00	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/15/09 16:53	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	101%	Limits: 75-125%		"							04/15/09 16:53	
Toluene-d8			102%	75-125%		"							"	
4-BFB			101%	75-125%		"							"	

LCS (9D15033-BS1)

Extracted: 04/15/09 13:00

Benzene	EPA 8260B	3.89	0.0100	0.0200	mg/kg wet	1x	--	4.00	97.4%	(75-125)	--	--	04/15/09 15:24	
Ethylbenzene	"	4.21	0.0120	0.100	"	"	--	"	105%	"	--	--	"	
Methyl tert-butyl ether	"	3.92	0.0100	0.0500	"	"	--	"	98.1%	"	--	--	"	
Naphthalene	"	3.80	1.10	2.00	"	"	--	"	94.9%	(60-140)	--	--	"	
Toluene	"	4.02	0.0100	0.100	"	"	--	"	101%	(75-125)	--	--	"	
o-Xylene	"	4.07	0.0170	0.100	"	"	--	"	102%	"	--	--	"	
m,p-Xylene	"	8.32	0.0210	0.200	"	"	--	8.00	104%	"	--	--	"	
Xylenes (total)	"	12.4	0.0310	0.300	"	"	--	12.0	103%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	97.1%	Limits: 75-125%		"							04/15/09 15:24	
Toluene-d8			96.1%	75-125%		"							"	
4-BFB			95.6%	75-125%		"							"	

LCS Dup (9D15033-BSD1)

Extracted: 04/15/09 13:00

Benzene	EPA 8260B	3.73	0.0100	0.0200	mg/kg wet	1x	--	4.00	93.4%	(75-125)	4.20% (20)	"	04/15/09 15:51	
Ethylbenzene	"	3.93	0.0120	0.100	"	"	--	"	98.2%	"	6.81%	"	"	
Methyl tert-butyl ether	"	3.84	0.0100	0.0500	"	"	--	"	96.1%	"	2.06%	"	"	
Naphthalene	"	3.91	1.10	2.00	"	"	--	"	97.8%	(60-140)	3.03%	"	"	
Toluene	"	3.80	0.0100	0.100	"	"	--	"	95.0%	(75-125)	5.75%	"	"	
o-Xylene	"	3.87	0.0170	0.100	"	"	--	"	96.8%	"	4.99%	"	"	
m,p-Xylene	"	7.64	0.0210	0.200	"	"	--	8.00	95.5%	"	8.47%	"	"	
Xylenes (total)	"	11.5	0.0310	0.300	"	"	--	12.0	95.9%	"	7.32%	"	"	
Surrogate(s): 1,2-DCA-d4		Recovery:	98.2%	Limits: 75-125%		"							04/15/09 15:51	
Toluene-d8			98.0%	75-125%		"							"	
4-BFB			97.6%	75-125%		"							"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/18/09 09:42
--	---	-----------------------------------

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D15027 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D15027-BLK1)										Extracted: 04/15/09 11:53				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/16/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the Kerosene range are primarily due to overlap from a heavy oil range product
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z1 - Surrogate recovery was above acceptance limits.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/18/09 09:42

Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.
Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.
Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BAD0158**

CLIENT: Comco Plastics		INVOICE TO: CP				
REPORT TO: wme@staff		P.O. NUMBER:				
PHONE:	FAX:	PRESERVATIVE				
PROJECT NAME: wme@staff II		REQUESTED ANALYSES				
PROJECT NUMBER:		<input type="checkbox"/> 10 STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Organic & Inorganic Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> OTHER Specify: 24-h *Turnaround Requests less than standard may incur Rush Charges.				
SAMPLED BY: MJM	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	ANAL-G15-9	4-15-09 / 1350	S	4	Silty Sand	11
2	-F15-9	" / 1420	S	4	Sand	12
3						
4						
5						
6						
7						
8						
9						
10						

RELEASED BY: **Mark McKen** DATE: **4-15-09** RECEIVED BY: **Francisco Lang, Jr** DATE: **4/15/09**
 PRINT NAME: **MATTHEW MCKENSON** FIRM: **WAS** PRINT NAME: **TA SEAS** FIRM: **TA SEAS** TIME: **1430** TIME: **1440**
 RECEIVED BY: **Lab 1515** FIRM: **w/o** PRINT NAME: **Lab 1515** FIRM: **w/o** TEMP: **4.0°C**
 PRINT NAME: **Lab 1515** FIRM: **w/o** PRINT NAME: **Lab 1515** FIRM: **w/o** PAGE: **2** OF **2**

Non-Conformances? Y or N

TAT: _____ Page Time & Initials: _____

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Date: 4/15/09 Time: 15:15 Initials: FL
 (applies to temp at receipt)

Logged-in By: _____ Date: 4/15 Time: 15:25 Initials: PL

Unpacked/Labeled By: _____ Date: 4/15 Time: 16:00 Initials: PL

Work Order No. _____ Client: _____ Project: _____

Container Type: Cooler _____
 Box _____
 None/Other _____

Ship Container: _____ Sign By: _____
 On Bottles: _____ Date: _____

COC Seals: _____
 Bubble Bags _____ Styrofoam _____
 Foam Packs _____
 None/Other Bubble wrap

Refrigerant: Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Soil Stir Bars/Encores: _____ Placed in freezer #46: _____
 Fed Ex _____ Client: _____
 UPS _____ TA Courier _____
 DHL _____ Mid Valley _____
 Senvoy _____ TDP _____
 GS _____ Other _____

Cooler Temperature (LR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 Temperature Blank? 4.0 or NA comments _____
 Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ ID _____
 Intact? Y or N
 Provided by TAP? Y or N
 Correct Type? Y or N
 #Containers match COC? Y or N
 IDs/time/date match COC? Y or N
 Hold Times in hold? Y or N

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____
 Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____
 Has client been contacted regarding non-conformances? _____
 Y or N _____
 Y or N _____
 Date: _____ Time: _____
 If Y, _____ / _____ / _____
 Date _____ Time _____

April 24, 2009

Melanie Young
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: COP Westlake & Mercer Cleanup Project

Enclosed are the results of analyses for samples received by the laboratory on 04/15/09 15:15.
The following list is a summary of the Work Orders contained in this report, generated on 04/24/09
16:26.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0162	COP Westlake & Mercer Clea	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

04/24/09 16:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I-041509	BSD0162-01	Water	04/15/09 12:55	04/15/09 15:15
M-041509	BSD0162-02	Water	04/15/09 13:10	04/15/09 15:15
E01-041509	BSD0162-03	Water	04/15/09 13:20	04/15/09 15:15
E02-041509	BSD0162-04	Water	04/15/09 13:25	04/15/09 15:15
E03-041509	BSD0162-05	Water	04/15/09 13:30	04/15/09 15:15

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 04/24/09 16:26
--	--	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0162-01 (I-041509)		Water			Sampled: 04/15/09 12:55					
Gasoline Range Hydrocarbons	NWTPH-Gx	257	----	50.0	ug/l	1x	9D16026	04/16/09 12:07	04/16/09 23:07	
Surrogate(s): 4-BFB (FID)		96.2%			70 - 145 %			"		
BSD0162-02 (M-041509)		Water			Sampled: 04/15/09 13:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	119	----	50.0	ug/l	1x	9D16026	04/16/09 12:07	04/16/09 18:15	
Surrogate(s): 4-BFB (FID)		94.4%			70 - 145 %			"		
BSD0162-03 (E01-041509)		Water			Sampled: 04/15/09 13:20					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9D16026	04/16/09 12:07	04/16/09 21:31	
Surrogate(s): 4-BFB (FID)		96.9%			70 - 145 %			"		
BSD0162-04 (E02-041509)		Water			Sampled: 04/15/09 13:25					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9D16026	04/16/09 12:07	04/16/09 22:03	
Surrogate(s): 4-BFB (FID)		97.2%			70 - 145 %			"		
BSD0162-05 (E03-041509)		Water			Sampled: 04/15/09 13:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9D16026	04/16/09 12:07	04/16/09 22:35	
Surrogate(s): 4-BFB (FID)		95.7%			70 - 145 %			"		

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 04/24/09 16:26
--	--	-----------------------------------

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0162-01RE1 (I-041509)		Water			Sampled: 04/15/09 12:55					
Diesel Range Hydrocarbons	NWTPH-Dx	1.13	----	0.245	mg/l	1x	9D16036	04/16/09 13:13	04/20/09 17:30	Q12
Lube Oil Range Hydrocarbons	"	0.681	----	0.490	"	"	"	"	"	Q7
Surrogate(s): 2-FBP			91.6%		53 - 120 %	"			"	
Octacosane			93.9%		68 - 123 %	"			"	
BSD0162-02RE1 (M-041509)		Water			Sampled: 04/15/09 13:10					
Diesel Range Hydrocarbons	NWTPH-Dx	0.788	----	0.238	mg/l	1x	9D16036	04/16/09 13:13	04/20/09 17:54	Q12
Lube Oil Range Hydrocarbons	"	0.611	----	0.476	"	"	"	"	"	Q7
Surrogate(s): 2-FBP			87.3%		53 - 120 %	"			"	
Octacosane			92.2%		68 - 123 %	"			"	
BSD0162-03RE1 (E01-041509)		Water			Sampled: 04/15/09 13:20					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.243	mg/l	1x	9D16036	04/16/09 13:13	04/20/09 18:17	
Lube Oil Range Hydrocarbons	"	ND	----	0.485	"	"	"	"	"	
Surrogate(s): 2-FBP			86.6%		53 - 120 %	"			"	
Octacosane			93.7%		68 - 123 %	"			"	
BSD0162-04RE1 (E02-041509)		Water			Sampled: 04/15/09 13:25					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.240	mg/l	1x	9D16036	04/16/09 13:13	04/20/09 18:41	
Lube Oil Range Hydrocarbons	"	ND	----	0.481	"	"	"	"	"	
Surrogate(s): 2-FBP			95.4%		53 - 120 %	"			"	
Octacosane			102%		68 - 123 %	"			"	
BSD0162-05 (E03-041509)		Water			Sampled: 04/15/09 13:30					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.240	mg/l	1x	9D16036	04/16/09 13:13	04/17/09 20:32	
Lube Oil Range Hydrocarbons	"	ND	----	0.481	"	"	"	"	"	
Surrogate(s): 2-FBP			86.7%		53 - 120 %	"			"	
Octacosane			102%		68 - 123 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 04/24/09 16:26
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0162-01RE1 (I-041509)		Water			Sampled: 04/15/09 12:55					
Benzene	EPA 8260B	2.16	----	0.500	ug/l	1x	9D22023	04/22/09 13:57	04/22/09 23:52	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	"
Toluene	"	ND	----	0.500	"	"	"	"	"	"
Total Xylenes	"	5.05	----	3.00	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			105%		80 - 120 %	"				"
<i>Toluene-d8</i>			101%		80 - 120 %	"				"
<i>4-BFB</i>			101%		80 - 120 %	"				"
BSD0162-02 (M-041509)		Water			Sampled: 04/15/09 13:10					
Benzene	EPA 8260B	0.620	----	0.500	ug/l	1x	9D16063	04/16/09 20:38	04/16/09 23:09	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	"
Toluene	"	ND	----	0.500	"	"	"	"	"	"
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			89.8%		80 - 120 %	"				"
<i>Toluene-d8</i>			102%		80 - 120 %	"				"
<i>4-BFB</i>			101%		80 - 120 %	"				"
BSD0162-03 (E01-041509)		Water			Sampled: 04/15/09 13:20					
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9D16063	04/16/09 20:38	04/16/09 23:35	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	"
Toluene	"	ND	----	0.500	"	"	"	"	"	"
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			92.8%		80 - 120 %	"				"
<i>Toluene-d8</i>			103%		80 - 120 %	"				"
<i>4-BFB</i>			99.6%		80 - 120 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 04/24/09 16:26
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16026 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D16026-BLK1)							Extracted: 04/16/09 12:07							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	04/16/09 17:11	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.3%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>04/16/09 17:11</i>	
LCS (9D16026-BS1)							Extracted: 04/16/09 12:07							
Gasoline Range Hydrocarbons	NWTPH-Gx	1000	---	50.0	ug/l	1x	--	1000	100%	(80-120)	--	--	04/16/09 17:43	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>04/16/09 17:43</i>	
Duplicate (9D16026-DUP1)							QC Source: BSD0162-02		Extracted: 04/16/09 12:07					
Gasoline Range Hydrocarbons	NWTPH-Gx	99.6	---	50.0	ug/l	1x	119	--	--	--	17.6% (25)	--	04/16/09 20:26	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>04/16/09 20:26</i>	
Matrix Spike (9D16026-MS1)							QC Source: BSD0162-02		Extracted: 04/16/09 12:07					
Gasoline Range Hydrocarbons	NWTPH-Gx	1030	---	50.0	ug/l	1x	119	1000	91.2%	(70-135)	--	--	04/16/09 23:39	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.0%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>04/16/09 23:39</i>	

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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16036 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9D16036-BLK1)													Extracted: 04/16/09 13:13		
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	04/17/09 17:35		
Lube Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 88.8%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>04/17/09 17:35</i>			
<i>Octacosane</i>		<i>99.3%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			
LCS (9D16036-BS1)													Extracted: 04/16/09 13:13		MNR1
Diesel Range Hydrocarbons	NWTPH-Dx	1.98	---	0.250	mg/l	1x	--	2.00	98.8%	(65-120)	--	--	04/17/09 17:57		
Lube Oil Range Hydrocarbons	"	1.96	---	0.500	"	"	--	"	97.9%	(70-120)	--	--	"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 90.0%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>04/17/09 17:57</i>			
<i>Octacosane</i>		<i>101%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			
LCS Dup (9D16036-BSD1)													Extracted: 04/16/09 13:13		
Diesel Range Hydrocarbons	NWTPH-Dx	1.99	---	0.250	mg/l	1x	--	2.00	99.7%	(65-120)	0.871% (25)		04/17/09 18:19		
Lube Oil Range Hydrocarbons	"	2.02	---	0.500	"	"	--	"	101%	(70-120)	3.26% (40)		"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 88.5%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>04/17/09 18:19</i>			
<i>Octacosane</i>		<i>97.9%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			

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Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16063 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D16063-BLK1)

Extracted: 04/16/09 16:38

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	04/16/09 20:07	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>104%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>04/16/09 20:07</i>	
	<i>Toluene-d8</i>		<i>102%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>96.8%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS (9D16063-BS1)

Extracted: 04/16/09 16:38

MNR1

Benzene	EPA 8260B	40.3	---	0.500	ug/l	1x	--	40.0	101%	(80-120)	--	--	04/16/09 18:03	
Ethylbenzene	"	38.4	---	0.500	"	"	--	"	96.1%	(75-125)	--	--	"	
Toluene	"	39.2	---	0.500	"	"	--	"	98.0%	"	--	--	"	
Total Xylenes	"	115	---	3.00	"	"	--	120	95.8%	"	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>95.4%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>04/16/09 18:03</i>	
	<i>Toluene-d8</i>		<i>98.6%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>100%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

LCS Dup (9D16063-BSD1)

Extracted: 04/16/09 16:38

Benzene	EPA 8260B	37.9	---	0.500	ug/l	1x	--	40.0	94.7%	(80-120)	6.24%	(20)	04/16/09 18:34	
Ethylbenzene	"	36.5	---	0.500	"	"	--	"	91.3%	(75-125)	5.12%	"	"	
Toluene	"	37.2	---	0.500	"	"	--	"	93.1%	"	5.15%	"	"	
Total Xylenes	"	110	---	3.00	"	"	--	120	91.3%	"	4.83%	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>96.8%</i>	<i>Limits:</i>	<i>80-120%</i>	<i>"</i>							<i>04/16/09 18:34</i>	
	<i>Toluene-d8</i>		<i>99.4%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>98.6%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 04/24/09 16:26
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22023 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D22023-BLK1)

Extracted: 04/22/09 13:57

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	04/22/09 20:31	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>04/22/09 20:31</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>100%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

LCS (9D22023-BS1)

Extracted: 04/22/09 13:57

MNR1

Benzene	EPA 8260B	40.6	---	0.500	ug/l	1x	--	40.0	101%	(80-120)	--	--	04/22/09 18:59	
Ethylbenzene	"	40.1	---	0.500	"	"	--	"	100%	(75-125)	--	--	"	
Toluene	"	39.4	---	0.500	"	"	--	"	98.6%	"	--	--	"	
Total Xylenes	"	114	---	3.00	"	"	--	120	95.3%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>04/22/09 18:59</i>	
<i>Toluene-d8</i>			<i>99.6%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D22023-BSD1)

Extracted: 04/22/09 13:57

Benzene	EPA 8260B	40.8	---	0.500	ug/l	1x	--	40.0	102%	(80-120)	0.615% (20)	"	04/22/09 19:28	
Ethylbenzene	"	40.4	---	0.500	"	"	--	"	101%	(75-125)	0.795%	"	"	
Toluene	"	39.3	---	0.500	"	"	--	"	98.3%	"	0.279%	"	"	
Total Xylenes	"	115	---	3.00	"	"	--	120	96.2%	"	0.896%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>04/22/09 19:28</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>99.5%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

04/24/09 16:26

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 8260B	Water	X	X
NWTPH-Dx	Water		X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

04/24/09 16:26

Notes and Definitions

Report Specific Notes:

- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Q12 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.
- Q7 - The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Kate Haney, Project Manager

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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **600102**

CLIENT: URS CORPORATION		INVOICE TO:		
REPORT TO: MELANIE YOUNG		PRESERVATIVE		
ADDRESS: 1501 4th AVENUE, SUITE 1400		REQUESTED ANALYSES		
SEATTLE WA				
PHONE:	FAX:	P.O. NUMBER:		
PROJECT NAME: WMCF				
PROJECT NUMBER: 33759383.05000				
SAMPLED BY: JOHN BAKER				
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	BITX	NOTPH - GX	NOTPH - DX
1 I-041509	4-15-09 / 1255	X	X	X
2 M-041509	/ / 1310	X	X	X
3 EQ1-041509	/ / 1320	X	X	X
4 EQ2-041509	/ / 1325		X	X
5 EQ3-041509	∇ / 1330		X	X
6				
7				
8				
9				
10				

RELEASED BY: John Baker	DATE: 4-15-09	RECEIVED BY: FRANCIS COLLINS JR	DATE: 4/15/09
PRINT NAME: JOHN BAKER	TIME: 1430	PRINT NAME: FRANCIS COLLINS JR	TIME: 1430
RELEASED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:

FIRM: URS CORPORATION	FIRM: URS CORPORATION
DATE: 4-15-09	DATE: 4/15/09
TIME: 1430	TIME: 1440

ADDITIONAL REMARKS:	TEMP: 2-8°C	PAGE: 1
		OF

TAT: 10

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: 363

Date: 4/15/09

Date: 4/15

Date: 04.16

Work Order No. 620062

Time: 1515

Time: 17:23

Time: 0925

Client: URS Corporation

Initials: FL

Initials: OT

Initials: CW

Project: Conoco Phillips Westlake +
Mercur Cleanup

Container Type:

COC Seals:

Packing Material:

Cooler _____ Ship Container _____ Sign By _____
 Box _____ On Bottles _____ Date _____
 None/Other _____ None

Bubble Bags _____ Styrofoam _____
 Foam Packs _____
 None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Placed in freezer #46: _____
Y or N or NA
Initial/date/time _____

____ Fed Ex _____ Client _____
____ UPS TA Courier _____
____ DHL _____ Mid Valley _____
____ Senvoy _____ TDP _____
____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 2.8 or NA comments _____

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____ Metals Preserved? Y or N or _____
Provided by TA? or N _____ Client QAPP Preserved? Y or N or _____
Correct Type? or N _____ Adequate Volume? or N _____
(for tests requested)
#Containers match COC? or N _____ Water VOAs: Headspace? Y or or NA _____
IDs/time/date match COC? or N _____ Comments: _____
Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 20, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/16/09 16:10.
The following list is a summary of the Work Orders contained in this report, generated on 04/20/09
14:09.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0176	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-B14-7	BSD0176-01	Soil	04/16/09 08:00	04/16/09 16:10
Area1-C13-9	BSD0176-02	Soil	04/16/09 09:00	04/16/09 16:10
Area1-C12-9	BSD0176-03	Soil	04/16/09 09:10	04/16/09 16:10
Area1-C9-14	BSD0176-04	Soil	04/16/09 13:00	04/16/09 16:10
Area1-C8-14	BSD0176-05	Soil	04/16/09 13:10	04/16/09 16:10
Area1-C7-14	BSD0176-06	Soil	04/16/09 13:20	04/16/09 16:10
Area1-B9-14	BSD0176-07	Soil	04/16/09 13:30	04/16/09 16:10
Area1-B8-14	BSD0176-08	Soil	04/16/09 13:40	04/16/09 16:10
Area1-B7-14	BSD0176-09	Soil	04/16/09 13:50	04/16/09 16:10
DUP-6	BSD0176-10	Soil	04/16/09 15:30	04/16/09 16:10
Area-1-D7-14	BSD0176-11	Soil	04/16/09 14:30	04/16/09 16:10
Area-1-D8-14	BSD0176-12	Soil	04/16/09 14:40	04/16/09 16:10
Area-1-D9-14	BSD0176-13	Soil	04/16/09 14:50	04/16/09 16:10

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-01 (Area1-B14-7)		Soil		Sampled: 04/16/09 08:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	59.6	9.63	34.4	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 03:23	
Surrogate(s): 4-BFB (FID)			149%		75 - 140 %	"				ZX
BSD0176-02 (Area1-C13-9)		Soil		Sampled: 04/16/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	9.35	33.4	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 03:55	
Surrogate(s): 4-BFB (FID)			153%		75 - 140 %	"				ZX
BSD0176-03 (Area1-C12-9)		Soil		Sampled: 04/16/09 09:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	11.1	39.5	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 04:27	
Surrogate(s): 4-BFB (FID)			153%		75 - 140 %	"				ZX
BSD0176-03RE1 (Area1-C12-9)		Soil		Sampled: 04/16/09 09:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	7.73	27.6	mg/kg dry	1x	9D17037	04/17/09 15:58	04/17/09 18:59	
Surrogate(s): 4-BFB (FID)			205%		75 - 140 %	"				ZX
BSD0176-04 (Area1-C9-14)		Soil		Sampled: 04/16/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.93	10.5	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 04:59	
Surrogate(s): 4-BFB (FID)			133%		75 - 140 %	"				
BSD0176-05 (Area1-C8-14)		Soil		Sampled: 04/16/09 13:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	7.07	1.19	4.25	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 05:31	
Surrogate(s): 4-BFB (FID)			117%		75 - 140 %	"				
BSD0176-06 (Area1-C7-14)		Soil		Sampled: 04/16/09 13:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.73	2.73	9.74	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 06:03	J
Surrogate(s): 4-BFB (FID)			125%		75 - 140 %	"				
BSD0176-07 (Area1-B9-14)		Soil		Sampled: 04/16/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.87	6.67	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 07:39	
Surrogate(s): 4-BFB (FID)			125%		75 - 140 %	"				

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-08 (Area1-B8-14)		Soil		Sampled: 04/16/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.87	6.69	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 08:11	
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	"				"
BSD0176-09 (Area1-B7-14)		Soil		Sampled: 04/16/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.82	6.51	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 08:43	
Surrogate(s): 4-BFB (FID)			123%		75 - 140 %	"				"
BSD0176-10 (DUP-6)		Soil		Sampled: 04/16/09 15:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	13.1	1.20	4.28	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 09:15	
Surrogate(s): 4-BFB (FID)			121%		75 - 140 %	"				"
BSD0176-11 (Area-1-D7-14)		Soil		Sampled: 04/16/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	14.5	2.41	8.61	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 09:47	
Surrogate(s): 4-BFB (FID)			143%		75 - 140 %	"				ZX
BSD0176-12 (Area-1-D8-14)		Soil		Sampled: 04/16/09 14:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	121	4.17	14.9	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 10:19	
Surrogate(s): 4-BFB (FID)			161%		75 - 140 %	"				ZX
BSD0176-13 (Area-1-D9-14)		Soil		Sampled: 04/16/09 14:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	7.51	2.58	9.20	mg/kg dry	1x	9D16032	04/16/09 17:35	04/17/09 10:51	J
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-01 (Area1-B14-7)		Soil			Sampled: 04/16/09 08:00					
Lube Oil	NWTPH-Dx	291	----	86.6	mg/kg dry	1x	9D16047	04/16/09 16:21	04/16/09 23:26	Q1
Kerosene	"	738	----	34.6	"	"	"	"	"	QP
Diesel Range Hydrocarbons	"	1530	----	34.6	"	"	"	"	"	QP, Q6
<i>Surrogate(s): 2-FBP</i>			87.8%		54 - 148 %	"			"	
<i>Octacosane</i>			99.7%		62 - 142 %	"			"	
BSD0176-02 (Area1-C13-9)		Soil			Sampled: 04/16/09 09:00					
Lube Oil	NWTPH-Dx	ND	----	87.3	mg/kg dry	1x	9D16047	04/16/09 16:21	04/16/09 23:48	
Kerosene	"	299	----	34.9	"	"	"	"	"	QP
Diesel Range Hydrocarbons	"	415	----	34.9	"	"	"	"	"	QP
<i>Surrogate(s): 2-FBP</i>			91.4%		54 - 148 %	"			"	
<i>Octacosane</i>			107%		62 - 142 %	"			"	
BSD0176-03 (Area1-C12-9)		Soil			Sampled: 04/16/09 09:10					
Lube Oil	NWTPH-Dx	202	----	96.7	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 01:36	
Kerosene	"	653	----	38.7	"	"	"	"	"	QP
Diesel Range Hydrocarbons	"	818	----	38.7	"	"	"	"	"	QP
<i>Surrogate(s): 2-FBP</i>			97.5%		54 - 148 %	"			"	
<i>Octacosane</i>			110%		62 - 142 %	"			"	
BSD0176-04 (Area1-C9-14)		Soil			Sampled: 04/16/09 13:00					
Lube Oil	NWTPH-Dx	ND	----	39.8	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 01:57	
Kerosene	"	ND	----	15.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	15.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			95.1%		54 - 148 %	"			"	
<i>Octacosane</i>			111%		62 - 142 %	"			"	
BSD0176-05 (Area1-C8-14)		Soil			Sampled: 04/16/09 13:10					
Kerosene	NWTPH-Dx	33.0	----	11.2	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 02:19	A-01
Diesel Range Hydrocarbons	"	208	----	11.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			97.6%		54 - 148 %	"			"	
<i>Octacosane</i>			106%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-05RE1 (Area1-C8-14)		Soil		Sampled: 04/16/09 13:10						
Lube Oil	NWTPH-Dx	542	----	140	mg/kg dry	5x	9D16047	04/16/09 16:21	04/17/09 11:14	
<i>Surrogate(s): 2-FBP</i>			88.7%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"
BSD0176-06 (Area1-C7-14)		Soil		Sampled: 04/16/09 13:20						
Lube Oil	NWTPH-Dx	51.1	----	36.0	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 02:41	
Kerosene	"	ND	----	14.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	18.2	----	14.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			92.1%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"
BSD0176-07 (Area1-B9-14)		Soil		Sampled: 04/16/09 13:30						
Lube Oil	NWTPH-Dx	ND	----	32.3	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 03:03	
Kerosene	"	ND	----	12.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.5%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"
BSD0176-08 (Area1-B8-14)		Soil		Sampled: 04/16/09 13:40						
Lube Oil	NWTPH-Dx	ND	----	33.0	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 03:24	
Kerosene	"	ND	----	13.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			95.5%		54 - 148 %	"				"
<i>Octacosane</i>			108%		62 - 142 %	"				"
BSD0176-09 (Area1-B7-14)		Soil		Sampled: 04/16/09 13:50						
Lube Oil	NWTPH-Dx	85.5	----	31.9	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 03:46	
Kerosene	"	ND	----	12.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			98.5%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-10 (DUP-6)		Soil		Sampled: 04/16/09 15:30						
Kerosene	NWTPH-Dx	23.5	----	11.4	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 04:07	A-01
Diesel Range Hydrocarbons	"	145	----	11.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.6%		54 - 148 %	"				
<i>Octacosane</i>			106%		62 - 142 %	"				
BSD0176-10RE1 (DUP-6)		Soil		Sampled: 04/16/09 15:30						
Lube Oil	NWTPH-Dx	384	----	143	mg/kg dry	5x	9D16047	04/16/09 16:21	04/17/09 11:36	
<i>Surrogate(s): 2-FBP</i>			83.8%		54 - 148 %	"				
<i>Octacosane</i>			112%		62 - 142 %	"				
BSD0176-11 (Area-1-D7-14)		Soil		Sampled: 04/16/09 14:30						
Lube Oil	NWTPH-Dx	92.7	----	36.7	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 04:29	
Kerosene	"	15.8	----	14.7	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	36.9	----	14.7	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			91.4%		54 - 148 %	"				
<i>Octacosane</i>			102%		62 - 142 %	"				
BSD0176-12 (Area-1-D8-14)		Soil		Sampled: 04/16/09 14:40						
Kerosene	NWTPH-Dx	1030	----	91.6	mg/kg dry	5x	9D16047	04/16/09 16:21	04/17/09 04:51	A-01
Diesel Range Hydrocarbons	"	6870	----	91.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			69.5%		54 - 148 %	"				
<i>Octacosane</i>			NR		62 - 142 %	"				Z9
BSD0176-12RE1 (Area-1-D8-14)		Soil		Sampled: 04/16/09 14:40						
Lube Oil	NWTPH-Dx	19900	----	2290	mg/kg dry	50x	9D16047	04/16/09 16:21	04/17/09 11:57	
<i>Surrogate(s): 2-FBP</i>			NR		54 - 148 %	"				Z3
<i>Octacosane</i>			NR		62 - 142 %	"				Z3
BSD0176-13 (Area-1-D9-14)		Soil		Sampled: 04/16/09 14:50						
Kerosene	NWTPH-Dx	33.1	----	13.7	mg/kg dry	1x	9D16047	04/16/09 16:21	04/17/09 09:20	A-01
Diesel Range Hydrocarbons	"	212	----	13.7	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			97.4%		54 - 148 %	"				
<i>Octacosane</i>			103%		62 - 142 %	"				

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-13RE1 (Area-1-D9-14)		Soil		Sampled: 04/16/09 14:50						
Lube Oil	NWTPH-Dx	537	----	171	mg/kg dry	5x	9D16047	04/16/09 16:21	04/17/09 12:19	
Surrogate(s):	2-FBP	88.7%			54 - 148 %	"				"
	Octacosane	107%			62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-01 (Area1-B14-7)		Soil			Sampled: 04/16/09 08:00					
Lead	EPA 6020	19.8	----	1.68	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 08:10	
BSD0176-02 (Area1-C13-9)		Soil			Sampled: 04/16/09 09:00					
Lead	EPA 6020	3.58	----	1.66	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 08:35	
BSD0176-03 (Area1-C12-9)		Soil			Sampled: 04/16/09 09:10					
Lead	EPA 6020	11.2	----	2.03	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 08:42	
BSD0176-04 (Area1-C9-14)		Soil			Sampled: 04/16/09 13:00					
Lead	EPA 6020	156	----	0.791	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 08:48	
BSD0176-05 (Area1-C8-14)		Soil			Sampled: 04/16/09 13:10					
Lead	EPA 6020	3.23	----	0.568	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 08:54	
BSD0176-06 (Area1-C7-14)		Soil			Sampled: 04/16/09 13:20					
Lead	EPA 6020	23.3	----	0.720	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 08:04	R3
BSD0176-07 (Area1-B9-14)		Soil			Sampled: 04/16/09 13:30					
Lead	EPA 6020	3.07	----	0.625	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 09:01	
BSD0176-08 (Area1-B8-14)		Soil			Sampled: 04/16/09 13:40					
Lead	EPA 6020	6.57	----	0.665	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 09:07	
BSD0176-09 (Area1-B7-14)		Soil			Sampled: 04/16/09 13:50					
Lead	EPA 6020	8.96	----	0.636	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 09:13	
BSD0176-10 (DUP-6)		Soil			Sampled: 04/16/09 15:30					
Lead	EPA 6020	3.73	----	0.578	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 09:19	
BSD0176-11 (Area-1-D7-14)		Soil			Sampled: 04/16/09 14:30					
Lead	EPA 6020	19.4	----	0.704	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 09:26	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-12 (Area-1-D8-14)		Soil		Sampled: 04/16/09 14:40						
Lead	EPA 6020	250	----	0.898	mg/kg dry	1x	9D16064	04/16/09 21:29	04/17/09 09:57	
BSD0176-13RE1 (Area-1-D9-14)		Soil		Sampled: 04/16/09 14:50						
Lead	EPA 6020	837	----	6.95	mg/kg dry	10x	9D16064	04/16/09 21:29	04/17/09 10:03	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-04 (Area1-C9-14)		Soil		Sampled: 04/16/09 13:00						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D20002	04/20/09 05:26	04/20/09 11:49	
BSD0176-12 (Area-1-D8-14)		Soil		Sampled: 04/16/09 14:40						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9D20002	04/20/09 05:26	04/20/09 11:53	
BSD0176-13 (Area-1-D9-14)		Soil		Sampled: 04/16/09 14:50						
Lead	EPA 6010B	6.66	----	1.00	mg/l	1x	9D20002	04/20/09 05:26	04/20/09 11:56	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-01 (Area1-B14-7)		Soil			Sampled: 04/16/09 08:00					
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00247	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 03:42	
<i>Surrogate(s): 1,2-DCA-d4</i>			113%		70 - 140 %	"				
<i>Toluene-d8</i>			130%		70 - 130 %	"				I2
<i>4-BFB</i>			137%		70 - 130 %	"				ZX, I2
BSD0176-02 (Area1-C13-9)		Soil			Sampled: 04/16/09 09:00					
Benzene	EPA 8260B	0.0847	----	0.00260	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 04:07	
Ethylbenzene	"	ND	----	0.00693	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00173	"	"	"	"	"	
Naphthalene	"	ND	----	0.0173	"	"	"	"	"	I2
Toluene	"	ND	----	0.00260	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.00867	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.00867	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0173	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			101%		70 - 140 %	"				
<i>Toluene-d8</i>			130%		70 - 130 %	"				I2
<i>4-BFB</i>			140%		70 - 130 %	"				ZX, I2
BSD0176-03 (Area1-C12-9)		Soil			Sampled: 04/16/09 09:10					
Ethylbenzene	EPA 8260B	ND	----	0.0108	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 04:33	I2
Methyl tert-butyl ether	"	ND	----	0.00270	"	"	"	"	"	
Naphthalene	"	ND	----	0.0270	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0135	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0135	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0270	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			119%		70 - 140 %	"				I2
<i>Toluene-d8</i>			130%		70 - 130 %	"				I2
<i>4-BFB</i>			135%		70 - 130 %	"				ZX, I2
BSD0176-04 (Area1-C9-14)		Soil			Sampled: 04/16/09 13:00					
Benzene	EPA 8260B	ND	----	0.00193	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 04:58	I2
Ethylbenzene	"	ND	----	0.00515	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00129	"	"	"	"	"	
Naphthalene	"	ND	----	0.0129	"	"	"	"	"	I2
Toluene	"	ND	----	0.00193	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.00644	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.00644	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0129	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			138%		70 - 140 %	"				I2
<i>Toluene-d8</i>			108%		70 - 130 %	"				I2

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSD0176-04 (Area1-C9-14)	Soil		Sampled: 04/16/09 13:00							
<i>4-BFB</i>		<i>110%</i>		<i>70 - 130 %</i>		<i>1x</i>			<i>04/17/09 04:58</i>	<i>12</i>

BSD0176-05RE1 (Area1-C8-14)	Soil		Sampled: 04/16/09 13:10								P13
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Benzene	EPA 8260B	0.0460	----	0.000811	mg/kg dry	1x	9D17031	04/17/09 15:00	04/17/09 16:52	
Ethylbenzene	"	0.0954	----	0.00216	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000541	"	"	"	"	"	
Toluene	"	0.00798	----	0.000811	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>124%</i>		<i>70 - 140 %</i>					<i>"</i>
<i>Toluene-d8</i>			<i>106%</i>		<i>70 - 130 %</i>					<i>"</i>
<i>4-BFB</i>			<i>121%</i>		<i>70 - 130 %</i>					<i>"</i>

BSD0176-06 (Area1-C7-14)	Soil		Sampled: 04/16/09 13:20							
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Benzene	EPA 8260B	ND	----	0.00134	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 05:49	
Ethylbenzene	"	ND	----	0.00357	"	"	"	"	"	
Methyl tert-butyl ether	"	0.00155	----	0.000893	"	"	"	"	"	
Naphthalene	"	ND	----	0.00893	"	"	"	"	"	
Toluene	"	ND	----	0.00134	"	"	"	"	"	
o-Xylene	"	ND	----	0.00446	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00446	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00893	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>113%</i>		<i>70 - 140 %</i>					<i>"</i>
<i>Toluene-d8</i>			<i>103%</i>		<i>70 - 130 %</i>					<i>"</i>
<i>4-BFB</i>			<i>118%</i>		<i>70 - 130 %</i>					<i>"</i>

BSD0176-07 (Area1-B9-14)	Soil		Sampled: 04/16/09 13:30								P13
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Benzene	EPA 8260B	ND	----	0.000979	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 06:14	
Ethylbenzene	"	ND	----	0.00261	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000652	"	"	"	"	"	
Naphthalene	"	ND	----	0.00652	"	"	"	"	"	
Toluene	"	ND	----	0.000979	"	"	"	"	"	
o-Xylene	"	ND	----	0.00326	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00326	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00652	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>117%</i>		<i>70 - 140 %</i>					<i>"</i>
<i>Toluene-d8</i>			<i>96.6%</i>		<i>70 - 130 %</i>					<i>"</i>
<i>4-BFB</i>			<i>105%</i>		<i>70 - 130 %</i>					<i>"</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-08 (Area1-B8-14)		Soil		Sampled: 04/16/09 13:40						P13
Benzene	EPA 8260B	ND	----	0.000885	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 06:40	
Ethylbenzene	"	ND	----	0.00236	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000590	"	"	"	"	"	
Naphthalene	"	ND	----	0.00590	"	"	"	"	"	
Toluene	"	ND	----	0.000885	"	"	"	"	"	
o-Xylene	"	ND	----	0.00295	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00295	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00590	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			118%		70 - 140 %	"				"
<i>Toluene-d8</i>			97.7%		70 - 130 %	"				"
<i>4-BFB</i>			104%		70 - 130 %	"				"
BSD0176-09 (Area1-B7-14)		Soil		Sampled: 04/16/09 13:50						P13
Benzene	EPA 8260B	ND	----	0.000907	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 07:05	
Ethylbenzene	"	ND	----	0.00242	"	"	"	"	"	
Methyl tert-butyl ether	"	0.000835	----	0.000605	"	"	"	"	"	
Naphthalene	"	ND	----	0.00605	"	"	"	"	"	
Toluene	"	ND	----	0.000907	"	"	"	"	"	
o-Xylene	"	ND	----	0.00302	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00302	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00605	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			127%		70 - 140 %	"				"
<i>Toluene-d8</i>			101%		70 - 130 %	"				"
<i>4-BFB</i>			111%		70 - 130 %	"				"
BSD0176-10 (DUP-6)		Soil		Sampled: 04/16/09 15:30						P13
Benzene	EPA 8260B	0.0214	----	0.000828	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 07:31	
Ethylbenzene	"	0.0317	----	0.00221	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000552	"	"	"	"	"	
Naphthalene	"	0.0935	----	0.00552	"	"	"	"	"	
Toluene	"	0.00246	----	0.000828	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			129%		70 - 140 %	"				"
<i>Toluene-d8</i>			100%		70 - 130 %	"				"
<i>4-BFB</i>			101%		70 - 130 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-11 (Area-1-D7-14)		Soil			Sampled: 04/16/09 14:30					
Benzene	EPA 8260B	0.00759	----	0.00137	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 07:56	
Ethylbenzene	"	0.0342	----	0.00366	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000915	"	"	"	"	"	
Naphthalene	"	0.0304	----	0.00915	"	"	"	"	"	
Toluene	"	0.00507	----	0.00137	"	"	"	"	"	
o-Xylene	"	0.0448	----	0.00457	"	"	"	"	"	
m,p-Xylene	"	0.120	----	0.00457	"	"	"	"	"	
Total Xylenes	"	0.165	----	0.00915	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>119%</i>		<i>70 - 140 %</i>	"				"
	<i>Toluene-d8</i>		<i>102%</i>		<i>70 - 130 %</i>	"				"
	<i>4-BFB</i>		<i>113%</i>		<i>70 - 130 %</i>	"				"

BSD0176-12 (Area-1-D8-14)		Soil			Sampled: 04/16/09 14:40					
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00168	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 08:21	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>140%</i>		<i>70 - 140 %</i>	"				<i>I2</i>
	<i>Toluene-d8</i>		<i>148%</i>		<i>70 - 130 %</i>	"				<i>ZX, I2</i>
	<i>4-BFB</i>		<i>149%</i>		<i>70 - 130 %</i>	"				<i>ZX, I2</i>

BSD0176-13 (Area-1-D9-14)		Soil			Sampled: 04/16/09 14:40					
Ethylbenzene	EPA 8260B	ND	----	0.00325	mg/kg dry	1x	9D16061	04/16/09 20:50	04/17/09 08:47	I2
Methyl tert-butyl ether	"	ND	----	0.000812	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.00812	"	"	"	"	"	I2
Toluene	"	ND	----	0.00122	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.00406	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.00406	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.00812	"	"	"	"	"	I2
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>145%</i>		<i>70 - 140 %</i>	"				<i>ZX, I2</i>
	<i>Toluene-d8</i>		<i>124%</i>		<i>70 - 130 %</i>	"				<i>I2</i>
	<i>4-BFB</i>		<i>117%</i>		<i>70 - 130 %</i>	"				<i>I2</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-01 (Area1-B14-7)		Soil			Sampled: 04/16/09 08:00					
Benzene	EPA 8260B	0.592	0.0688	0.138	mg/kg dry	1x	9D16029	04/16/09 18:25	04/16/09 19:00	
Ethylbenzene	"	ND	0.0825	0.688	"	"	"	"	"	
Naphthalene	"	ND	7.57	13.8	"	"	"	"	"	
Toluene	"	ND	0.0688	0.688	"	"	"	"	"	
o-Xylene	"	ND	0.117	0.688	"	"	"	"	"	
m,p-Xylene	"	ND	0.144	1.38	"	"	"	"	"	
Xylenes (total)	"	ND	0.213	2.06	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			99.0%		75 - 125 %	"				"
<i>Toluene-d8</i>			99.4%		75 - 125 %	"				"
<i>4-BFB</i>			99.6%		75 - 125 %	"				"
BSD0176-03 (Area1-C12-9)		Soil			Sampled: 04/16/09 09:10					
Benzene	EPA 8260B	ND	0.0790	0.158	mg/kg dry	1x	9D16029	04/16/09 18:25	04/16/09 19:54	
Toluene	"	ND	0.0790	0.790	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			97.1%		75 - 125 %	"				"
<i>Toluene-d8</i>			96.6%		75 - 125 %	"				"
<i>4-BFB</i>			96.3%		75 - 125 %	"				"
BSD0176-05 (Area1-C8-14)		Soil			Sampled: 04/16/09 13:10					
Benzene	EPA 8260B	0.0221	0.00883	0.0177	mg/kg dry	1x	9D16029	04/16/09 18:25	04/16/09 20:47	
Ethylbenzene	"	0.0238	0.0106	0.0883	"	"	"	"	"	J
Methyl tert-butyl ether	"	ND	0.00883	0.0442	"	"	"	"	"	
Naphthalene	"	ND	0.972	1.77	"	"	"	"	"	
Toluene	"	ND	0.00883	0.0883	"	"	"	"	"	
o-Xylene	"	0.151	0.0150	0.0883	"	"	"	"	"	
m,p-Xylene	"	0.306	0.0185	0.177	"	"	"	"	"	
Xylenes (total)	"	0.458	0.0274	0.265	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			106%		75 - 125 %	"				"
<i>Toluene-d8</i>			98.6%		75 - 125 %	"				"
<i>4-BFB</i>			95.3%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-10 (DUP-6)		Soil		Sampled: 04/16/09 15:30						
o-Xylene	EPA 8260B	0.177	0.0146	0.0856	mg/kg dry	1x	9D16029	04/16/09 18:25	04/16/09 23:01	
m,p-Xylene	"	0.377	0.0180	0.171	"	"	"	"	"	
Xylenes (total)	"	0.554	0.0265	0.257	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			102%		75 - 125 %	"				"
<i>Toluene-d8</i>			96.6%		75 - 125 %	"				"
<i>4-BFB</i>			92.6%		75 - 125 %	"				"
BSD0176-12 (Area-1-D8-14)		Soil		Sampled: 04/16/09 14:40						
Benzene	EPA 8260B	0.0984	0.0298	0.0596	mg/kg dry	1x	9D16029	04/16/09 18:25	04/16/09 23:54	
Ethylbenzene	"	0.110	0.0358	0.298	"	"	"	"	"	J
Naphthalene	"	ND	3.28	5.96	"	"	"	"	"	
Toluene	"	0.0745	0.0298	0.298	"	"	"	"	"	J
o-Xylene	"	0.116	0.0507	0.298	"	"	"	"	"	J
m,p-Xylene	"	0.504	0.0626	0.596	"	"	"	"	"	J
Xylenes (total)	"	0.620	0.0924	0.894	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			102%		75 - 125 %	"				"
<i>Toluene-d8</i>			94.4%		75 - 125 %	"				"
<i>4-BFB</i>			95.4%		75 - 125 %	"				"
BSD0176-13 (Area-1-D9-14)		Soil		Sampled: 04/16/09 14:50						
Benzene	EPA 8260B	ND	0.0184	0.0368	mg/kg dry	1x	9D16029	04/16/09 18:25	04/17/09 00:21	
<i>Surrogate(s): 1,2-DCA-d4</i>			100%		75 - 125 %	"				"
<i>Toluene-d8</i>			96.2%		75 - 125 %	"				"
<i>4-BFB</i>			98.1%		75 - 125 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-01 (Area1-B14-7)		Soil								Sampled: 04/16/09 08:00
Dry Weight	BSOPSP003R0 8	28.6	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-02 (Area1-C13-9)		Soil								Sampled: 04/16/09 09:00
Dry Weight	BSOPSP003R0 8	28.6	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-03 (Area1-C12-9)		Soil								Sampled: 04/16/09 09:10
Dry Weight	BSOPSP003R0 8	25.4	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-04 (Area1-C9-14)		Soil								Sampled: 04/16/09 13:00
Dry Weight	BSOPSP003R0 8	62.6	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-05 (Area1-C8-14)		Soil								Sampled: 04/16/09 13:10
Dry Weight	BSOPSP003R0 8	88.1	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-06 (Area1-C7-14)		Soil								Sampled: 04/16/09 13:20
Dry Weight	BSOPSP003R0 8	69.5	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-07 (Area1-B9-14)		Soil								Sampled: 04/16/09 13:30
Dry Weight	BSOPSP003R0 8	76.2	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-08 (Area1-B8-14)		Soil								Sampled: 04/16/09 13:40
Dry Weight	BSOPSP003R0 8	75.2	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-09 (Area1-B7-14)		Soil								Sampled: 04/16/09 13:50
Dry Weight	BSOPSP003R0 8	77.1	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-10 (DUP-6)		Soil								Sampled: 04/16/09 15:30
Dry Weight	BSOPSP003R0 8	87.3	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-11 (Area-1-D7-14)		Soil								Sampled: 04/16/09 14:30

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0176-11 (Area-1-D7-14)		Soil		Sampled: 04/16/09 14:30						
Dry Weight	BSOPSP003R0 8	67.6	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-12 (Area-1-D8-14)		Soil		Sampled: 04/16/09 14:40						
Dry Weight	BSOPSP003R0 8	54.6	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	
BSD0176-13 (Area-1-D9-14)		Soil		Sampled: 04/16/09 14:50						
Dry Weight	BSOPSP003R0 8	72.0	----	1.00	%	1x	9D16050	04/16/09 18:24	04/17/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16032 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D16032-BLK1)													Extracted: 04/16/09 12:35			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/16/09 13:24			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.2%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/16/09 13:24</i>				
LCS (9D16032-BS1)													Extracted: 04/16/09 12:35			
Gasoline Range Hydrocarbons	NWTPH-Gx	48.5	1.40	5.00	mg/kg wet	1x	--	50.0	97.1%	(80-120)	--	--	04/16/09 13:56			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/16/09 13:56</i>				
Duplicate (9D16032-DUP1)													QC Source: BSD0158-01RE1		Extracted: 04/16/09 12:35	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	0.913	3.26	mg/kg wet	1x	ND	--	--	--	NR (40)		04/16/09 15:34			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.5%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/16/09 15:34</i>				
Duplicate (9D16032-DUP2)													QC Source: BSD0166-01		Extracted: 04/16/09 12:35	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.94	6.93	mg/kg dry	1x	ND	--	--	--	NR (40)		04/17/09 01:47			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/17/09 01:47</i>				
Matrix Spike (9D16032-MS1)													QC Source: BSD0158-01RE1		Extracted: 04/16/09 12:35	
Gasoline Range Hydrocarbons	NWTPH-Gx	35.1	0.913	3.26	mg/kg wet	1x	ND	32.6	108%	(75-130)	--	--	04/16/09 16:06	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/16/09 16:06</i>				

QC Batch: 9D17037 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D17037-BLK1)													Extracted: 04/17/09 15:58			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/17/09 17:54			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.2%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/17/09 17:54</i>				
LCS (9D17037-BS1)													Extracted: 04/17/09 15:58			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.2	1.40	5.00	mg/kg wet	1x	--	50.0	98.5%	(80-120)	--	--	04/17/09 18:26			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/17/09 18:26</i>				
Duplicate (9D17037-DUP1)													QC Source: BSD0195-02		Extracted: 04/17/09 15:58	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.97	7.03	mg/kg dry	1x	ND	--	--	--	NR (40)		04/17/09 21:39			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 125%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/17/09 21:39</i>				
Duplicate (9D17037-DUP2)													QC Source: BSD0195-03		Extracted: 04/17/09 15:58	
Gasoline Range Hydrocarbons	NWTPH-Gx	26.6	1.95	6.98	mg/kg dry	1x	27.4	--	--	--	2.96% (40)		04/17/09 22:11			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 171%</i>		<i>Limits: 75-140%</i>		<i>"</i>						<i>04/17/09 22:11</i>				

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D17037 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Matrix Spike (9D17037-MS1)			QC Source: BSD0195-02					Extracted: 04/17/09 15:58							
Gasoline Range Hydrocarbons	NWTPH-Gx	73.4	1.97	7.03	mg/kg dry	1x	ND	54.2	135%	(75-130)	--	--	04/17/09 22:43	MI	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 133%</i>		<i>Limits: 75-140%</i>								<i>04/17/09 22:43</i>			

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16047 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D16047-BLK1)

Extracted: 04/16/09 16:21

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/16/09 20:31	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>98.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/16/09 20:31</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>112%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D16047-BS1)

Extracted: 04/16/09 16:21

Lube Oil	NWTPH-Dx	73.7	---	25.0	mg/kg wet	1x	--	66.7	111%	(63-125)	--	--	04/16/09 20:53	
Diesel Range Hydrocarbons	"	77.8	---	10.0	"	"	--	"	117%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/16/09 20:53</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D16047-DUP1)

QC Source: BSD0176-04

Extracted: 04/16/09 16:21

Lube Oil	NWTPH-Dx	ND	---	39.7	mg/kg dry	1x	ND	--	--	--	28.9% (50)		04/16/09 21:15	
Kerosene	"	ND	---	15.9	"	"	ND	--	--	--	"		"	R4
Diesel Range Hydrocarbons	"	ND	---	15.9	"	"	ND	--	--	--	NR		"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/16/09 21:15</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D16047-DUP2)

QC Source: BSD0176-06

Extracted: 04/16/09 16:21

Lube Oil	NWTPH-Dx	60.5	---	36.0	mg/kg dry	1x	51.1	--	--	--	16.7% (50)		04/16/09 21:37	
Kerosene	"	ND	---	14.4	"	"	ND	--	--	--	38.3%		"	
Diesel Range Hydrocarbons	"	21.5	---	14.4	"	"	18.2	--	--	--	16.4%		"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/16/09 21:37</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D16047-MS1)

QC Source: BSD0176-04

Extracted: 04/16/09 16:21

Lube Oil	NWTPH-Dx	110	---	39.8	mg/kg dry	1x	6.49	106	98.0%	(26-150)	--	--	04/16/09 21:59	
Diesel Range Hydrocarbons	"	111	---	15.9	"	"	ND	"	104%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/16/09 21:59</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16064 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D16064-BLK1)								Extracted: 04/16/09 21:29						
Lead	EPA 6020	ND	---	0.510	mg/kg wet	1x	--	--	--	--	--	--	04/17/09 07:32	
LCS (9D16064-BS1)								Extracted: 04/16/09 21:29						
Lead	EPA 6020	38.2	---	0.500	mg/kg wet	1x	--	40.0	95.5%	(80-120)	--	--	04/17/09 07:39	
Duplicate (9D16064-DUP1)				QC Source: BSD0176-06				Extracted: 04/16/09 21:29						
Lead	EPA 6020	32.1	---	0.692	mg/kg dry	1x	23.3	--	--	--	31.7% (20)	--	04/17/09 07:57	R3
Matrix Spike (9D16064-MS1)				QC Source: BSD0176-06				Extracted: 04/16/09 21:29						
Lead	EPA 6020	77.2	---	0.692	mg/kg dry	1x	23.3	55.4	97.3%	(75-125)	--	--	04/17/09 07:51	
Post Spike (9D16064-PS1)				QC Source: BSD0176-06				Extracted: 04/16/09 21:29						
Lead	EPA 6020	0.128	---		ug/ml	1x	0.0324	0.100	95.4%	(80-120)	--	--	04/17/09 07:45	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D20002 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D20002-BLK1)								Extracted: 04/20/09 05:26						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/20/09 11:29	
Blank (9D20002-BLK2)								Extracted: 04/20/09 05:26						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/20/09 11:33	
LCS (9D20002-BS1)								Extracted: 04/20/09 05:26						
Lead	EPA 6010B	45.1	---	1.00	mg/l	1x	--	50.0	90.2%	(80-120)	--	--	04/20/09 11:36	
Duplicate (9D20002-DUP1)				QC Source: BSD0176-04				Extracted: 04/20/09 05:26						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	ND	--	--	--	2.11% (20)	--	04/20/09 11:43	
Matrix Spike (9D20002-MS1)				QC Source: BSD0176-04				Extracted: 04/20/09 05:26						
Lead	EPA 6010B	44.1	---	1.00	mg/l	1x	0.0470	50.0	88.0%	(80-120)	--	--	04/20/09 11:39	
Post Spike (9D20002-PS1)				QC Source: BSD0176-04				Extracted: 04/20/09 05:26						
Lead	EPA 6010B	4.72	---		ug/ml	1x	0.00470	5.00	94.3%	(75-125)	--	--	04/20/09 11:46	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/20/09 14:09

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16061 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D16061-BLK1)

Extracted: 04/16/09 20:50

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/17/09 03:16	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759381	04/20/09 14:09
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16061 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D16061-BLK1)													Extracted: 04/16/09 20:50	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/17/09 03:16	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 129%</i>		<i>Limits: 70-140%</i>									<i>04/17/09 03:16</i>	
<i>Toluene-d8</i>		<i>94.4%</i>		<i>70-130%</i>									<i>"</i>	
<i>4-BFB</i>		<i>98.5%</i>		<i>70-130%</i>									<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16061 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D16061-BS1)													Extracted: 04/16/09 20:50	
Acetone	EPA 8260B	0.550	---	0.0400	mg/kg wet	1x	--	0.500	110%	(60-140)	--	--	04/17/09 02:26	
Benzene	"	0.0424	---	0.00150	"	"	--	0.0500	84.7%	(70-125)	--	--	"	
2-Butanone	"	0.478	---	0.0300	"	"	--	0.500	95.6%	(60-140)	--	--	"	
Carbon disulfide	"	0.0422	---	0.00300	"	"	--	0.0500	84.4%	(70-130)	--	--	"	
Chlorobenzene	"	0.0422	---	0.00200	"	"	--	"	84.3%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0436	---	0.00200	"	"	--	"	87.2%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0410	---	0.00300	"	"	--	"	82.0%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0435	---	0.00300	"	"	--	"	87.0%	(75-125)	--	--	"	
Ethylbenzene	"	0.0424	---	0.00400	"	"	--	"	84.8%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0377	---	0.0100	"	"	--	"	75.4%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.551	---	0.0300	"	"	--	0.500	110%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0387	---	0.00200	"	"	--	0.0500	77.3%	(70-125)	--	--	"	
Toluene	"	0.0409	---	0.00150	"	"	--	"	81.8%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0422	---	0.00250	"	"	--	"	84.4%	(70-130)	--	--	"	
Trichloroethene	"	0.0427	---	0.00250	"	"	--	"	85.4%	(70-125)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 103%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>04/17/09 02:26</i>	
<i>Toluene-d8</i>		<i>98.2%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>104%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D16061-BSD1)													Extracted: 04/16/09 20:50	
Acetone	EPA 8260B	0.543	---	0.0400	mg/kg wet	1x	--	0.500	109%	(60-140)	1.27% (30)		04/17/09 02:51	
Benzene	"	0.0445	---	0.00150	"	"	--	0.0500	89.0%	(70-125)	4.91%	"	"	
2-Butanone	"	0.484	---	0.0300	"	"	--	0.500	96.7%	(60-140)	1.20%	"	"	
Carbon disulfide	"	0.0444	---	0.00300	"	"	--	0.0500	88.7%	(70-130)	4.92%	"	"	
Chlorobenzene	"	0.0458	---	0.00200	"	"	--	"	91.6%	(70-125)	8.21%	"	"	
1,1-Dichloroethane	"	0.0462	---	0.00200	"	"	--	"	92.4%	(75-125)	5.81%	"	"	
1,1-Dichloroethene	"	0.0430	---	0.00300	"	"	--	"	86.1%	(70-130)	4.93%	"	"	
cis-1,2-Dichloroethene	"	0.0460	---	0.00300	"	"	--	"	92.0%	(75-125)	5.63%	"	"	
Ethylbenzene	"	0.0464	---	0.00400	"	"	--	"	92.9%	(70-125)	9.14%	"	"	
Hexachlorobutadiene	"	0.0429	---	0.0100	"	"	--	"	85.8%	(70-130)	13.0%	"	"	
4-Methyl-2-pentanone	"	0.525	---	0.0300	"	"	--	0.500	105%	(60-140)	4.84%	"	"	
Tetrachloroethene	"	0.0444	---	0.00200	"	"	--	0.0500	88.9%	(70-125)	13.9%	"	"	
Toluene	"	0.0458	---	0.00150	"	"	--	"	91.6%	"	11.3%	"	"	
1,1,1-Trichloroethane	"	0.0452	---	0.00250	"	"	--	"	90.4%	(70-130)	6.77%	"	"	
Trichloroethene	"	0.0458	---	0.00250	"	"	--	"	91.7%	(70-125)	7.07%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 103%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>04/17/09 02:51</i>	
<i>Toluene-d8</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>100%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D17031 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D17031-BLK1)

Extracted: 04/17/09 15:18

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/17/09 16:26	C
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/20/09 14:09

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D17031 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D17031-BLK1)													Extracted: 04/17/09 15:18	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/17/09 16:26	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	C
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 121%</i>		<i>Limits: 70-140%</i>									<i>04/17/09 16:26</i>	
<i>Toluene-d8</i>		<i>93.8%</i>		<i>70-130%</i>									<i>"</i>	
<i>4-BFB</i>		<i>104%</i>		<i>70-130%</i>									<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D17031 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D17031-BS1)													Extracted: 04/17/09 15:18	
Acetone	EPA 8260B	0.618	---	0.0400	mg/kg wet	1x	--	0.500	124%	(60-140)	--	--	04/17/09 15:35	
Benzene	"	0.0468	---	0.00150	"	"	--	0.0500	93.6%	(70-125)	--	--	"	
2-Butanone	"	0.561	---	0.0300	"	"	--	0.500	112%	(60-140)	--	--	"	
Carbon disulfide	"	0.0499	---	0.00300	"	"	--	0.0500	99.8%	(70-130)	--	--	"	
Chlorobenzene	"	0.0461	---	0.00200	"	"	--	"	92.2%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0493	---	0.00200	"	"	--	"	98.6%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0485	---	0.00300	"	"	--	"	97.1%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0487	---	0.00300	"	"	--	"	97.4%	(75-125)	--	--	"	
Ethylbenzene	"	0.0472	---	0.00400	"	"	--	"	94.3%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0485	---	0.0100	"	"	--	"	97.1%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.640	---	0.0300	"	"	--	0.500	128%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0441	---	0.00200	"	"	--	0.0500	88.3%	(70-125)	--	--	"	
Toluene	"	0.0450	---	0.00150	"	"	--	"	89.9%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0496	---	0.00250	"	"	--	"	99.2%	(70-130)	--	--	"	
Trichloroethene	"	0.0463	---	0.00250	"	"	--	"	92.6%	(70-125)	--	--	"	
Total Xylenes	"	0.142	---	0.0100	"	"	--	0.150	94.8%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 104%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>04/17/09 15:35</i>		
<i>Toluene-d8</i>		<i>94.9%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>102%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9D17031-BS1)													Extracted: 04/17/09 15:18	
Acetone	EPA 8260B	0.515	---	0.0400	mg/kg wet	1x	--	0.500	103%	(60-140)	18.2% (30)		04/17/09 16:01	
Benzene	"	0.0455	---	0.00150	"	"	--	0.0500	90.9%	(70-125)	2.95%	"	"	
2-Butanone	"	0.463	---	0.0300	"	"	--	0.500	92.6%	(60-140)	19.1%	"	"	
Carbon disulfide	"	0.0467	---	0.00300	"	"	--	0.0500	93.4%	(70-130)	6.69%	"	"	
Chlorobenzene	"	0.0463	---	0.00200	"	"	--	"	92.5%	(70-125)	0.368%	"	"	
1,1-Dichloroethane	"	0.0465	---	0.00200	"	"	--	"	93.0%	(75-125)	5.80%	"	"	
1,1-Dichloroethene	"	0.0453	---	0.00300	"	"	--	"	90.7%	(70-130)	6.80%	"	"	
cis-1,2-Dichloroethene	"	0.0453	---	0.00300	"	"	--	"	90.6%	(75-125)	7.26%	"	"	
Ethylbenzene	"	0.0476	---	0.00400	"	"	--	"	95.2%	(70-125)	0.886%	"	"	
Hexachlorobutadiene	"	0.0448	---	0.0100	"	"	--	"	89.5%	(70-130)	8.08%	"	"	
4-Methyl-2-pentanone	"	0.501	---	0.0300	"	"	--	0.500	100%	(60-140)	24.3%	"	"	
Tetrachloroethene	"	0.0451	---	0.00200	"	"	--	0.0500	90.2%	(70-125)	2.20%	"	"	
Toluene	"	0.0454	---	0.00150	"	"	--	"	90.9%	"	1.08%	"	"	
1,1,1-Trichloroethane	"	0.0455	---	0.00250	"	"	--	"	91.0%	(70-130)	8.60%	"	"	
Trichloroethene	"	0.0460	---	0.00250	"	"	--	"	92.0%	(70-125)	0.628%	"	"	
Total Xylenes	"	0.144	---	0.0100	"	"	--	0.150	95.7%	(70-130)	0.987%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 102%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>04/17/09 16:01</i>		
<i>Toluene-d8</i>		<i>98.8%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9D17031

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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LCS Dup (9D17031-BSD1)

Extracted: 04/17/09 15:18

Surrogate(s): 4-BFB

Recovery: 101%

Limits: 70-130% 1x

04/17/09 16:01

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/20/09 14:09
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16029 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D16029-BLK1)													Extracted: 04/16/09 08:25	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/16/09 18:33	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 99.1% Limits: 75-125% " 04/16/09 18:33</i>														
<i>Toluene-d8 102% 75-125% " "</i>														
<i>4-BFB 101% 75-125% " "</i>														

LCS (9D16029-BS1)													Extracted: 04/16/09 08:25	
Benzene	EPA 8260B	3.65	0.0100	0.0200	mg/kg wet	1x	--	4.00	91.2%	(75-125)	--	--	04/16/09 17:05	
Ethylbenzene	"	3.76	0.0120	0.100	"	"	--	"	93.9%	"	--	--	"	
Methyl tert-butyl ether	"	3.65	0.0100	0.0500	"	"	--	"	91.2%	"	--	--	"	
Naphthalene	"	3.42	1.10	2.00	"	"	--	"	85.6%	(60-140)	--	--	"	
Toluene	"	3.74	0.0100	0.100	"	"	--	"	93.5%	(75-125)	--	--	"	
o-Xylene	"	3.71	0.0170	0.100	"	"	--	"	92.6%	"	--	--	"	
m,p-Xylene	"	7.49	0.0210	0.200	"	"	--	8.00	93.7%	"	--	--	"	
Xylenes (total)	"	11.2	0.0310	0.300	"	"	--	12.0	93.3%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 100% Limits: 75-125% " 04/16/09 17:05</i>														
<i>Toluene-d8 99.4% 75-125% " "</i>														
<i>4-BFB 97.1% 75-125% " "</i>														

LCS Dup (9D16029-BSD1)													Extracted: 04/16/09 08:25	
Benzene	EPA 8260B	3.59	0.0100	0.0200	mg/kg wet	1x	--	4.00	89.8%	(75-125)	1.60%	(20)	04/16/09 17:31	
Ethylbenzene	"	3.72	0.0120	0.100	"	"	--	"	92.9%	"	1.04%	"	"	
Methyl tert-butyl ether	"	3.74	0.0100	0.0500	"	"	--	"	93.5%	"	2.49%	"	"	
Naphthalene	"	3.51	1.10	2.00	"	"	--	"	87.8%	(60-140)	2.62%	"	"	
Toluene	"	3.66	0.0100	0.100	"	"	--	"	91.4%	(75-125)	2.27%	"	"	
o-Xylene	"	3.56	0.0170	0.100	"	"	--	"	88.9%	"	4.13%	"	"	
m,p-Xylene	"	7.18	0.0210	0.200	"	"	--	8.00	89.7%	"	4.34%	"	"	
Xylenes (total)	"	10.7	0.0310	0.300	"	"	--	12.0	89.4%	"	4.27%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 97.0% Limits: 75-125% " 04/16/09 17:31</i>														
<i>Toluene-d8 98.4% 75-125% " "</i>														
<i>4-BFB 99.5% 75-125% " "</i>														

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/20/09 14:09
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D16050 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D16050-BLK1)										Extracted: 04/16/09 18:24				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/17/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the kerosene range are primarily due to overlap from a heavy oil range product.
- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z3 - The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- Z9 - Unable to calculate surrogate recovery due to matrix interference.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/20/09 14:09

Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.
Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.
Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA0076**

CLIENT: Carolo Fisheries		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: WMLP Staff		P.O. NUMBER:		<input type="checkbox"/> 10 STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Organic & Inorganic Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses	
PHONE:		PRESERVATIVE:		OTHER: MTA Specific: MTA * Turnaround Requests less than standard may incur Rush Charges.	
PROJECT NAME: WMLP Phase II		REQUESTED ANALYSES:		MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WO ID	
PROJECT NUMBER:		LEAD		S 5 Subduct 01 PID = 2 ppm Subduct	
SAMPLED BY: WMLP Staff		B2C05K		↓ ↓ Subduct 02 0.2 ppm	
CLIENT SAMPLE IDENTIFICATION		Dx (Pb) - 5716 (G/Cu)		↓ ↓ Subduct 03 0 ppm	
SAMPLING DATE/TIME		MUTR		↓ ↓ Subduct 04 1.6 ppm	
1 4-10-09 / 0800		G		↓ ↓ Subduct 05 16 ppm	
2 " -C13-9 " / 0900		MUTR		↓ ↓ Subduct 06 24 ppm	
3 " -C12-9 " / 0910		X		↓ ↓ Subduct 07 5.7 ppm	
4 " -C9-14 " / 1300		X		↓ ↓ Subduct 08 1 ppm	
5 " C8-14 " / 1310		X		↓ ↓ Subduct 09 1.3 ppm	
6 " C7-14 " / 1320		X		↓ ↓ Subduct 10 —	
7 " -B9-14 " / 1330		X		↓ ↓ Subduct 01 —	
8 " -B8-14 " / 1340		X		↓ ↓ Subduct 02 —	
9 " -B7-14 " / 1350		X		↓ ↓ Subduct 03 —	
10 DWP-6 " / —		X		↓ ↓ Subduct 04 —	
RELEASED BY: WMLP Staff		DATE: 4-16-09		DATE: 4/16/09	
FIRM: WMLP		TIME: 1530		TIME: 1530	
PRINT NAME: WMLP Staff		RECEIVED BY: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: Francisco Lang, Jr		FIRM: TA-SEA	
FIRM: WMLP		DATE: 4-16-09		DATE: 4/16/09	
TIME: 1530		TIME: 1530		TIME: 1530	
RECEIVED BY: WMLP Staff		PRINT NAME: 			

TAT: _____ Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: BDD0176

Date: 4/16/09

Date: 4/16

Date: 4/14

Work Order No. _____

Time: 1610

Time: 16:10

Time: 17:00

Client: _____

Initials: EL

Initials: EL

Initials: EL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

None/Other Bubble wrap

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

Temperature Blank? 1.7 or NA comments _____

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved?

Y or N or NA

Provided by TA? or N _____

Client QAPP Preserved?

Y or N or NA

Correct Type? or N _____

Adequate Volume?

or N

(for tests requested)

#Containers match COC? or N _____

Water VOAs: Headspace?

Y or N or NA

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 21, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/20/09 17:20.
The following list is a summary of the Work Orders contained in this report, generated on 04/21/09
16:54.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0209	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/21/09 16:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA2-C10-9	BSD0209-01	Soil	04/20/09 10:00	04/20/09 17:20
AREA1-I14-9	BSD0209-02	Soil	04/20/09 13:30	04/20/09 17:20
AREA1-I13-9	BSD0209-03	Soil	04/20/09 13:45	04/20/09 17:20
AREA1-H14-9	BSD0209-04	Soil	04/20/09 14:00	04/20/09 17:20
AREA1-H13-9	BSD0209-05	Soil	04/20/09 14:15	04/20/09 17:20
AREA1-G8-14	BSD0209-06	Soil	04/20/09 15:00	04/20/09 17:20
AREA1-G9-14	BSD0209-07	Soil	04/20/09 15:10	04/20/09 17:20

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0209-01 (AREA2-C10-9)		Soil		Sampled: 04/20/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	1.83	1.82	6.50	mg/kg dry	1x	9D20036	04/20/09 21:24	04/20/09 21:37	J
Surrogate(s): 4-BFB (FID)			122%		75 - 140 %	"				"
BSD0209-02 (AREA1-I14-9)		Soil		Sampled: 04/20/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.71	6.11	mg/kg dry	1x	9D20036	04/20/09 21:24	04/21/09 00:19	
Surrogate(s): 4-BFB (FID)			116%		75 - 140 %	"				"
BSD0209-03 (AREA1-I13-9)		Soil		Sampled: 04/20/09 13:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.64	5.86	mg/kg dry	1x	9D20036	04/20/09 21:24	04/21/09 00:51	
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"				"
BSD0209-04 (AREA1-H14-9)		Soil		Sampled: 04/20/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.94	6.93	mg/kg dry	1x	9D20036	04/20/09 21:24	04/21/09 01:23	
Surrogate(s): 4-BFB (FID)			114%		75 - 140 %	"				"
BSD0209-05 (AREA1-H13-9)		Soil		Sampled: 04/20/09 14:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.71	6.12	mg/kg dry	1x	9D20036	04/20/09 21:24	04/21/09 01:55	
Surrogate(s): 4-BFB (FID)			117%		75 - 140 %	"				"
BSD0209-06 (AREA1-G8-14)		Soil		Sampled: 04/20/09 15:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	184	14.9	53.2	mg/kg dry	1x	9D20036	04/20/09 21:24	04/21/09 02:27	
Surrogate(s): 4-BFB (FID)			170%		75 - 140 %	"				ZX
BSD0209-07 (AREA1-G9-14)		Soil		Sampled: 04/20/09 15:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	63.9	18.2	65.0	mg/kg dry	1x	9D20036	04/20/09 21:24	04/21/09 02:59	J
Surrogate(s): 4-BFB (FID)			200%		75 - 140 %	"				ZX

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0209-01 (AREA2-C10-9)		Soil		Sampled: 04/20/09 10:00						
Lube Oil	NWTPH-Dx	ND	----	31.0	mg/kg dry	1x	9D20045	04/20/09 17:58	04/20/09 23:49	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			107%		54 - 148 %	"				"
<i>Octacosane</i>			119%		62 - 142 %	"				"
BSD0209-02 (AREA1-I14-9)		Soil		Sampled: 04/20/09 13:30						
Lube Oil	NWTPH-Dx	ND	----	29.8	mg/kg dry	1x	9D20045	04/20/09 17:58	04/21/09 00:11	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			98.9%		54 - 148 %	"				"
<i>Octacosane</i>			113%		62 - 142 %	"				"
BSD0209-03 (AREA1-I13-9)		Soil		Sampled: 04/20/09 13:45						
Lube Oil	NWTPH-Dx	ND	----	29.0	mg/kg dry	1x	9D20045	04/20/09 17:58	04/21/09 00:32	
Kerosene	"	ND	----	11.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			98.3%		54 - 148 %	"				"
<i>Octacosane</i>			113%		62 - 142 %	"				"
BSD0209-04 (AREA1-H14-9)		Soil		Sampled: 04/20/09 14:00						
Lube Oil	NWTPH-Dx	ND	----	30.7	mg/kg dry	1x	9D20045	04/20/09 17:58	04/21/09 00:54	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.5%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"
BSD0209-05 (AREA1-H13-9)		Soil		Sampled: 04/20/09 14:15						
Lube Oil	NWTPH-Dx	ND	----	30.5	mg/kg dry	1x	9D20045	04/20/09 17:58	04/21/09 01:16	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.5%		54 - 148 %	"				"
<i>Octacosane</i>			115%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0209-06 (AREA1-G8-14)		Soil		Sampled: 04/20/09 15:00						
Lube Oil	NWTPH-Dx	205	----	106	mg/kg dry	1x	9D20045	04/20/09 17:58	04/21/09 01:37	Q1
Kerosene	"	55.9	----	42.3	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	165	----	42.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			96.2%		54 - 148 %	"			"	
<i>Octacosane</i>			106%		62 - 142 %	"			"	
BSD0209-07 (AREA1-G9-14)		Soil		Sampled: 04/20/09 15:10						
Lube Oil	NWTPH-Dx	7520	----	1240	mg/kg dry	10x	9D20045	04/20/09 17:58	04/21/09 09:42	Q1
Kerosene	"	3520	----	495	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	8440	----	495	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			75.4%		54 - 148 %	"			"	
<i>Octacosane</i>			135%		62 - 142 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0209-01 (AREA2-C10-9)		Soil			Sampled: 04/20/09 10:00					
Lead	EPA 6020	4.14	----	0.645	mg/kg dry	1x	9D20048	04/20/09 18:44	04/21/09 08:34	
BSD0209-02 (AREA1-I14-9)		Soil			Sampled: 04/20/09 13:30					
Lead	EPA 6020	2.44	----	0.588	mg/kg dry	1x	9D20048	04/20/09 18:44	04/21/09 08:40	
BSD0209-03 (AREA1-I13-9)		Soil			Sampled: 04/20/09 13:45					
Lead	EPA 6020	1.48	----	0.575	mg/kg dry	1x	9D20048	04/20/09 18:44	04/21/09 09:05	
BSD0209-04 (AREA1-H14-9)		Soil			Sampled: 04/20/09 14:00					
Lead	EPA 6020	1.60	----	0.631	mg/kg dry	1x	9D20048	04/20/09 18:44	04/21/09 09:11	
BSD0209-05 (AREA1-H13-9)		Soil			Sampled: 04/20/09 14:15					
Lead	EPA 6020	2.68	----	0.589	mg/kg dry	1x	9D20048	04/20/09 18:44	04/21/09 09:18	
BSD0209-06 (AREA1-G8-14)		Soil			Sampled: 04/20/09 15:00					
Lead	EPA 6020	392	----	2.19	mg/kg dry	1x	9D20048	04/20/09 18:44	04/21/09 09:24	
BSD0209-07 (AREA1-G9-14)		Soil			Sampled: 04/20/09 15:10					
Lead	EPA 6020	360	----	2.51	mg/kg dry	1x	9D20048	04/20/09 18:44	04/21/09 09:30	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/21/09 16:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSD0209-01 (AREA2-C10-9)		Soil		Sampled: 04/20/09 10:00						
Benzene	EPA 8260B	ND	----	0.00112	mg/kg dry	1x	9D20031	04/20/09 16:46	04/20/09 19:06	
Ethylbenzene	"	ND	----	0.00297	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000744	"	"	"	"	"	
Naphthalene	"	ND	----	0.00744	"	"	"	"	"	
Toluene	"	ND	----	0.00112	"	"	"	"	"	
o-Xylene	"	ND	----	0.00372	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00372	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00744	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				109%	70 - 140 %	"				"
<i>Toluene-d8</i>				105%	70 - 130 %	"				"
<i>4-BFB</i>				121%	70 - 130 %	"				"

BSD0209-02 (AREA1-I14-9)		Soil		Sampled: 04/20/09 13:30						
Benzene	EPA 8260B	ND	----	0.000998	mg/kg dry	1x	9D20031	04/20/09 16:46	04/20/09 19:31	
Ethylbenzene	"	ND	----	0.00266	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000665	"	"	"	"	"	
Naphthalene	"	ND	----	0.00665	"	"	"	"	"	
Toluene	"	ND	----	0.000998	"	"	"	"	"	
o-Xylene	"	ND	----	0.00333	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00333	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00665	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				112%	70 - 140 %	"				"
<i>Toluene-d8</i>				100%	70 - 130 %	"				"
<i>4-BFB</i>				111%	70 - 130 %	"				"

BSD0209-03 (AREA1-I13-9)		Soil		Sampled: 04/20/09 13:45							P13
Benzene	EPA 8260B	ND	----	0.000858	mg/kg dry	1x	9D20031	04/20/09 16:46	04/20/09 19:57		
Ethylbenzene	"	ND	----	0.00229	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000572	"	"	"	"	"		
Naphthalene	"	ND	----	0.00572	"	"	"	"	"		
Toluene	"	ND	----	0.000858	"	"	"	"	"		
o-Xylene	"	ND	----	0.00286	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00286	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00572	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				120%	70 - 140 %	"				"	
<i>Toluene-d8</i>				94.4%	70 - 130 %	"				"	
<i>4-BFB</i>				103%	70 - 130 %	"				"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0209-04 (AREA1-H14-9)		Soil		Sampled: 04/20/09 14:00						
Benzene	EPA 8260B	ND	----	0.000932	mg/kg dry	1x	9D20031	04/20/09 16:46	04/20/09 20:22	I
Ethylbenzene	"	ND	----	0.00248	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.000621	"	"	"	"	"	I
Naphthalene	"	ND	----	0.00621	"	"	"	"	"	I
Toluene	"	ND	----	0.000932	"	"	"	"	"	I
o-Xylene	"	ND	----	0.00311	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.00311	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.00621	"	"	"	"	"	I

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>122%</i>	<i>70 - 140 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>I</i>
	<i>Toluene-d8</i>	<i>97.8%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>I</i>
	<i>4-BFB</i>	<i>104%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>I</i>

BSD0209-05 (AREA1-H13-9)		Soil		Sampled: 04/20/09 14:15						
Benzene	EPA 8260B	ND	----	0.00100	mg/kg dry	1x	9D20031	04/20/09 16:46	04/20/09 20:47	
Ethylbenzene	"	ND	----	0.00267	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000668	"	"	"	"	"	
Naphthalene	"	ND	----	0.00668	"	"	"	"	"	
Toluene	"	ND	----	0.00100	"	"	"	"	"	
o-Xylene	"	ND	----	0.00334	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00334	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00668	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>115%</i>	<i>70 - 140 %</i>	<i>"</i>						
	<i>Toluene-d8</i>	<i>99.4%</i>	<i>70 - 130 %</i>	<i>"</i>						
	<i>4-BFB</i>	<i>107%</i>	<i>70 - 130 %</i>	<i>"</i>						

BSD0209-06 (AREA1-G8-14)		Soil		Sampled: 04/20/09 15:00						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00216	mg/kg dry	1x	9D20031	04/20/09 16:46	04/20/09 21:13	I

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>185%</i>	<i>70 - 140 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>I, ZX</i>
	<i>Toluene-d8</i>	<i>161%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>I, ZX</i>
	<i>4-BFB</i>	<i>142%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>I, ZX</i>

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0209-07 (AREA1-G9-14)		Soil			Sampled: 04/20/09 15:10					P13
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00250	mg/kg dry	1x	9D20031	04/20/09 16:46	04/20/09 21:38	I
Surrogate(s):	1,2-DCA-d4		184%		70 - 140 %	"			"	I, ZX
	Toluene-d8		146%		70 - 130 %	"			"	I, ZX
	4-BFB		164%		70 - 130 %	"			"	I, ZX

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/21/09 16:54

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0209-06 (AREA1-G8-14)		Soil		Sampled: 04/20/09 15:00						
Benzene	EPA 8260B	0.436	0.104	0.207	mg/kg dry	1x	9D20034	04/20/09 16:07	04/20/09 22:55	
Ethylbenzene	"	0.176	0.124	1.04	"	"	"	"	"	J
Naphthalene	"	ND	11.4	20.7	"	"	"	"	"	
Toluene	"	0.166	0.104	1.04	"	"	"	"	"	J
o-Xylene	"	ND	0.176	1.04	"	"	"	"	"	
m,p-Xylene	"	0.602	0.218	2.07	"	"	"	"	"	J
Xylenes (total)	"	0.705	0.322	3.11	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			96.5%		75 - 125 %	"			"	
<i>Toluene-d8</i>			92.1%		75 - 125 %	"			"	
<i>4-BFB</i>			97.6%		75 - 125 %	"			"	

BSD0209-07 (AREA1-G9-14)		Soil		Sampled: 04/20/09 15:10						
Benzene	EPA 8260B	0.208	0.130	0.260	mg/kg dry	1x	9D20034	04/20/09 16:07	04/20/09 23:26	J
Ethylbenzene	"	ND	0.156	1.30	"	"	"	"	"	
Naphthalene	"	ND	14.3	26.0	"	"	"	"	"	
Toluene	"	0.169	0.130	1.30	"	"	"	"	"	J
o-Xylene	"	ND	0.221	1.30	"	"	"	"	"	
m,p-Xylene	"	ND	0.273	2.60	"	"	"	"	"	
Xylenes (total)	"	ND	0.403	3.90	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			99.8%		75 - 125 %	"			"	
<i>Toluene-d8</i>			92.6%		75 - 125 %	"			"	
<i>4-BFB</i>			96.0%		75 - 125 %	"			"	

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/21/09 16:54

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0209-01 (AREA2-C10-9)		Soil								Sampled: 04/20/09 10:00
Dry Weight	BSOPSP003R0 8	80.0	----	1.00	%	1x	9D20046	04/20/09 17:59	04/21/09 00:00	
BSD0209-02 (AREA1-I14-9)		Soil								Sampled: 04/20/09 13:30
Dry Weight	BSOPSP003R0 8	82.5	----	1.00	%	1x	9D20046	04/20/09 17:59	04/21/09 00:00	
BSD0209-03 (AREA1-I13-9)		Soil								Sampled: 04/20/09 13:45
Dry Weight	BSOPSP003R0 8	86.2	----	1.00	%	1x	9D20046	04/20/09 17:59	04/21/09 00:00	
BSD0209-04 (AREA1-H14-9)		Soil								Sampled: 04/20/09 14:00
Dry Weight	BSOPSP003R0 8	80.8	----	1.00	%	1x	9D20046	04/20/09 17:59	04/21/09 00:00	
BSD0209-05 (AREA1-H13-9)		Soil								Sampled: 04/20/09 14:15
Dry Weight	BSOPSP003R0 8	81.6	----	1.00	%	1x	9D20046	04/20/09 17:59	04/21/09 00:00	
BSD0209-06 (AREA1-G8-14)		Soil								Sampled: 04/20/09 15:00
Dry Weight	BSOPSP003R0 8	23.2	----	1.00	%	1x	9D20046	04/20/09 17:59	04/21/09 00:00	
BSD0209-07 (AREA1-G9-14)		Soil								Sampled: 04/20/09 15:10
Dry Weight	BSOPSP003R0 8	19.9	----	1.00	%	1x	9D20046	04/20/09 17:59	04/21/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D20036 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D20036-BLK1)

Extracted: 04/20/09 14:00

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/20/09 15:13	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.3%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/20/09 15:13</i>	

LCS (9D20036-BS1)

Extracted: 04/20/09 14:00

Gasoline Range Hydrocarbons	NWTPH-Gx	49.1	1.40	5.00	mg/kg wet	1x	--	50.0	98.2%	(80-120)	--	--	04/20/09 15:45	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/20/09 15:45</i>	

Duplicate (9D20036-DUP1)

QC Source: BSD0209-01

Extracted: 04/20/09 14:00

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.82	6.50	mg/kg dry	1x	1.83	--	--	--	--	(40)	04/20/09 22:10	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 119%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/20/09 22:10</i>	

Matrix Spike (9D20036-MS1)

QC Source: BSD0209-01

Extracted: 04/20/09 14:00

Gasoline Range Hydrocarbons	NWTPH-Gx	69.6	1.82	6.50	mg/kg dry	1x	1.83	52.5	129%	(75-130)	--	--	04/20/09 22:42	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 127%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/20/09 22:42</i>	

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D20045 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D20045-BLK1)

Extracted: 04/20/09 17:58

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/20/09 20:52	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/20/09 20:52</i>	
<i>Octacosane</i>			<i>110%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D20045-BS1)

Extracted: 04/20/09 17:58

Lube Oil	NWTPH-Dx	73.1	---	25.0	mg/kg wet	1x	--	66.7	110%	(63-125)	--	--	04/20/09 21:14	
Diesel Range Hydrocarbons	"	78.8	---	10.0	"	"	--	"	118%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/20/09 21:14</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D20045-DUP1)

QC Source: BSD0209-01

Extracted: 04/20/09 17:58

Lube Oil	NWTPH-Dx	ND	---	30.9	mg/kg dry	1x	ND	--	--	--	(50)	--	04/20/09 21:37	R4
Kerosene	"	ND	---	12.3	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.3	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/20/09 21:37</i>	
<i>Octacosane</i>			<i>112%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D20045-MS1)

QC Source: BSD0209-01

Extracted: 04/20/09 17:58

Lube Oil	NWTPH-Dx	87.4	---	31.2	mg/kg dry	1x	ND	83.1	105%	(26-150)	--	--	04/20/09 21:59	
Diesel Range Hydrocarbons	"	96.8	---	12.5	"	"	ND	"	117%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>97.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/20/09 21:59</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D20048	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D20048-BLK1)								Extracted: 04/20/09 18:44						
Lead	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	04/21/09 08:02	
LCS (9D20048-BS1)								Extracted: 04/20/09 18:44						
Lead	EPA 6020	38.7	---	0.505	mg/kg wet	1x	--	40.4	95.7%	(80-120)	--	--	04/21/09 08:08	
Duplicate (9D20048-DUP1)				QC Source: BSD0209-01				Extracted: 04/20/09 18:44						
Lead	EPA 6020	4.61	---	0.619	mg/kg dry	1x	4.14	--	--	--	10.8% (20)	--	04/21/09 08:27	
Matrix Spike (9D20048-MS1)				QC Source: BSD0209-01				Extracted: 04/20/09 18:44						
Lead	EPA 6020	54.3	---	0.632	mg/kg dry	1x	4.14	50.5	99.3%	(75-125)	--	--	04/21/09 08:21	
Post Spike (9D20048-PS1)				QC Source: BSD0209-01				Extracted: 04/20/09 18:44						
Lead	EPA 6020	0.109	---		ug/ml	1x	0.00642	0.100	102%	(80-120)	--	--	04/21/09 08:15	

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/21/09 16:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D20031 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D20031-BLK1)													Extracted: 04/20/09 09:46	
Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/20/09 18:41	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	04/21/09 16:54

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D20031 **Soil Preparation Method: EPA 5035**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D20031-BLK1)

Extracted: 04/20/09 09:46

Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/20/09 18:41	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	123%	Limits:	70-140%	"	04/20/09 18:41
	Toluene-d8		93.8%		70-130%	"	"
	4-BFB		101%		70-130%	"	"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D20031 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D20031-BS1)													Extracted: 04/20/09 09:46	
Benzene	EPA 8260B	0.0448	---	0.00150	mg/kg wet	1x	--	0.0500	89.6%	(70-125)	--	--	04/20/09 17:50	
1,1-Dichloroethene	"	0.0444	---	0.00300	"	"	--	"	88.9%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0465	---	0.00300	"	"	--	"	93.0%	(75-125)	--	--	"	
Ethylbenzene	"	0.0463	---	0.00400	"	"	--	"	92.6%	(70-125)	--	--	"	
Tetrachloroethene	"	0.0427	---	0.00200	"	"	--	"	85.4%	"	--	--	"	
Toluene	"	0.0430	---	0.00150	"	"	--	"	85.9%	"	--	--	"	
Trichloroethene	"	0.0455	---	0.00250	"	"	--	"	91.0%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/20/09 17:50</i>	
<i>Toluene-d8</i>		<i>95.4%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D20031-BS1)													Extracted: 04/20/09 09:46	
Benzene	EPA 8260B	0.0491	---	0.00150	mg/kg wet	1x	--	0.0500	98.3%	(70-125)	9.26% (30)		04/20/09 18:15	
1,1-Dichloroethene	"	0.0500	---	0.00300	"	"	--	"	100%	(70-130)	11.8%	"	"	
cis-1,2-Dichloroethene	"	0.0519	---	0.00300	"	"	--	"	104%	(75-125)	11.0%	"	"	
Ethylbenzene	"	0.0489	---	0.00400	"	"	--	"	97.8%	(70-125)	5.46%	"	"	
Tetrachloroethene	"	0.0462	---	0.00200	"	"	--	"	92.4%	"	7.92%	"	"	
Toluene	"	0.0476	---	0.00150	"	"	--	"	95.2%	"	10.2%	"	"	
Trichloroethene	"	0.0489	---	0.00250	"	"	--	"	97.8%	"	7.22%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/20/09 18:15</i>	
<i>Toluene-d8</i>		<i>96.6%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>97.4%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D20034 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D20034-BLK1)													Extracted: 04/20/09 10:07	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/20/09 19:49	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 89.6% Limits: 75-125% " 04/20/09 19:49</i>														
<i>Toluene-d8 101% 75-125% " "</i>														
<i>4-BFB 101% 75-125% " "</i>														

LCS (9D20034-BS1)													Extracted: 04/20/09 10:07	
Benzene	EPA 8260B	3.74	0.0100	0.0200	mg/kg wet	1x	--	4.00	93.4%	(75-125)	--	--	04/20/09 18:24	
Ethylbenzene	"	3.74	0.0120	0.100	"	"	--	"	93.6%	"	--	--	"	
Methyl tert-butyl ether	"	3.80	0.0100	0.0500	"	"	--	"	95.0%	"	--	--	"	
Naphthalene	"	3.55	1.10	2.00	"	"	--	"	88.8%	(60-140)	--	--	"	
Toluene	"	3.66	0.0100	0.100	"	"	--	"	91.5%	(75-125)	--	--	"	
o-Xylene	"	3.60	0.0170	0.100	"	"	--	"	90.0%	"	--	--	"	
m,p-Xylene	"	7.26	0.0210	0.200	"	"	--	8.00	90.8%	"	--	--	"	
Xylenes (total)	"	10.9	0.0310	0.300	"	"	--	12.0	90.5%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 94.6% Limits: 75-125% " 04/20/09 18:24</i>														
<i>Toluene-d8 95.4% 75-125% " "</i>														
<i>4-BFB 96.7% 75-125% " "</i>														

LCS Dup (9D20034-BSD1)													Extracted: 04/20/09 10:07	
Benzene	EPA 8260B	3.93	0.0100	0.0200	mg/kg wet	1x	--	4.00	98.3%	(75-125)	5.06% (20)		04/20/09 18:51	
Ethylbenzene	"	3.82	0.0120	0.100	"	"	--	"	95.5%	"	1.98%	"	"	
Methyl tert-butyl ether	"	3.62	0.0100	0.0500	"	"	--	"	90.4%	"	4.85%	"	"	
Naphthalene	"	3.80	1.10	2.00	"	"	--	"	95.0%	(60-140)	6.77%	"	"	
Toluene	"	3.75	0.0100	0.100	"	"	--	"	93.8%	(75-125)	2.51%	"	"	
o-Xylene	"	3.77	0.0170	0.100	"	"	--	"	94.2%	"	4.53%	"	"	
m,p-Xylene	"	7.53	0.0210	0.200	"	"	--	8.00	94.2%	"	3.66%	"	"	
Xylenes (total)	"	11.3	0.0310	0.300	"	"	--	12.0	94.2%	"	3.95%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.7% Limits: 75-125% " 04/20/09 18:51</i>														
<i>Toluene-d8 93.9% 75-125% " "</i>														
<i>4-BFB 95.0% 75-125% " "</i>														

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/21/09 16:54
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D20046 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D20046-BLK1)										Extracted: 04/20/09 17:59				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/21/09 00:00	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/21/09 16:54

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/21/09 16:54

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the Kerosene range are primarily due to overlap from a heavy oil range product
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSD0209**

CLIENT: CONISED Pitalcofs		INVOICE TO: CP		TURNAROUND REQUEST			
REPORT TO: WMEP Staff		P.O. NUMBER:		in Business Days *			
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses			
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses			
PROJECT NAME: WMEP Phase II				STD.			
PROJECT NUMBER:				STD.			
SAMPLED BY: Matthew Mckibbin				OTHER			
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		Specify: 24-hr			
				* Turnaround Requests less than standard may incur Rush Charges.			
1	AR02-CID-9	4-20-09 / 1000	LEAD	S	4	SiH/Fine Sand	TA
2	AR01-114-9	" / 1330	X	 	 	PID = OPPA	WO ID
3	" -113-9	" / 1345	X	 	 	Fine Sand w/ SiH	
4	" H14-9	" / 1400	X	 	 	1.5 ppm Sand	
5	" H13-9	" / 1415	X	 	 	1 ppm Sand & SiH	
6	" GB-14	" / 1500	X	 	 	OPPA	
7	" G9-14	" / 1510	X	 	 	SiH + SiH	
8						OPPA	
9						Sandst	
10						11.2 ppm Sandst	
						11.7 ppm	

RELEASED BY: Matthew Mckibbin	DATE: 4-20-09	RECEIVED BY: [Signature]	DATE: 4/20/09
PRINT NAME: Matthew Mckibbin	TIME: 1540	PRINT NAME: Blankinship	TIME: 1540
FRM: WMS		FRM: TA-S	
RELEASED BY:		RECEIVED BY:	
PRINT NAME:		PRINT NAME:	
FRM:		FRM:	
DATE:		DATE:	
TIME:		TIME:	

ADDITIONAL REMARKS: **TCIF all samples w/ lead results 7100 mg/kg @ lab 1720**

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: MB 1723

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/20

Date: 04.20

Date: 04.20.09

Work Order No. BSD0209

Time: 1720

Time: _____

Time: 1729

Client: _____

Initials: MB

Initials: CW

Initials: CW

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

____ Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

None (Other) vda holder

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 5.3 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved?

Y or N or NA SOIL

Provided by TA? or N _____

Client QAPP Preserved?

Y or N or NA

Correct Type? or N _____

Adequate Volume?
(for tests requested)

or N _____

#Containers match COC? or N _____

Water VOAs: Headspace?

Y or N or NA

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 22, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/21/09 16:05.
The following list is a summary of the Work Orders contained in this report, generated on 04/22/09
15:52.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0221	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/22/09 15:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-G13-9	BSD0221-01	Soil	04/21/09 09:00	04/21/09 16:05
Area1-G12-9	BSD0221-02	Soil	04/21/09 09:15	04/21/09 16:05
Area2-F4-14	BSD0221-03	Soil	04/21/09 09:30	04/21/09 16:05
Area1-F13-9	BSD0221-04	Soil	04/21/09 10:00	04/21/09 16:05
Area1-F12-7	BSD0221-05	Soil	04/21/09 10:20	04/21/09 16:05
Area1-C13-6	BSD0221-06	Soil	04/21/09 13:30	04/21/09 16:05
Area1-D12-9	BSD0221-07	Soil	04/21/09 14:15	04/21/09 16:05
Area1-E12-9	BSD0221-08	Soil	04/21/09 14:30	04/21/09 16:05

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/22/09 15:52
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0221-01 (Area1-G13-9)		Soil		Sampled: 04/21/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.52	5.42	mg/kg dry	1x	9D21045	04/21/09 17:02	04/22/09 02:44	MI
Surrogate(s): 4-BFB (FID)			109%		75 - 140 %	"			"	
BSD0221-02 (Area1-G12-9)		Soil		Sampled: 04/21/09 09:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.76	9.85	mg/kg dry	1x	9D21045	04/21/09 17:02	04/22/09 03:17	
Surrogate(s): 4-BFB (FID)			113%		75 - 140 %	"			"	
BSD0221-03 (Area2-F4-14)		Soil		Sampled: 04/21/09 09:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	3.02	10.8	mg/kg dry	1x	9D21045	04/21/09 17:02	04/22/09 03:49	
Surrogate(s): 4-BFB (FID)			121%		75 - 140 %	"			"	
BSD0221-04 (Area1-F13-9)		Soil		Sampled: 04/21/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	13.6	48.5	mg/kg dry	1x	9D21045	04/21/09 17:02	04/22/09 04:22	
Surrogate(s): 4-BFB (FID)			145%		75 - 140 %	"			"	ZX
BSD0221-05 (Area1-F12-7)		Soil		Sampled: 04/21/09 10:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.50	5.36	mg/kg dry	1x	9D21045	04/21/09 17:02	04/22/09 04:54	
Surrogate(s): 4-BFB (FID)			112%		75 - 140 %	"			"	
BSD0221-06 (Area1-C13-6)		Soil		Sampled: 04/21/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.50	5.37	mg/kg dry	1x	9D21045	04/21/09 17:02	04/22/09 05:26	
Surrogate(s): 4-BFB (FID)			109%		75 - 140 %	"			"	
BSD0221-07 (Area1-D12-9)		Soil		Sampled: 04/21/09 14:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	31.5	14.5	51.6	mg/kg dry	1x	9D21045	04/21/09 17:02	04/22/09 08:08	J
Surrogate(s): 4-BFB (FID)			136%		75 - 140 %	"			"	
BSD0221-08 (Area1-E12-9)		Soil		Sampled: 04/21/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	21.3	15.0	53.4	mg/kg dry	1x	9D21045	04/21/09 17:02	04/22/09 08:39	J
Surrogate(s): 4-BFB (FID)			132%		75 - 140 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/22/09 15:52
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0221-01 (Area1-G13-9)		Soil		Sampled: 04/21/09 09:00						
Lube Oil	NWTPH-Dx	ND	----	30.4	mg/kg dry	1x	9D21051	04/21/09 16:45	04/21/09 21:38	
Kerosene	"	ND	----	12.2	"	"	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			99.3%		54 - 148 %	"				
<i>Octacosane</i>			119%		62 - 142 %	"				
BSD0221-02 (Area1-G12-9)		Soil		Sampled: 04/21/09 09:15						
Lube Oil	NWTPH-Dx	ND	----	36.7	mg/kg dry	1x	9D21051	04/21/09 16:45	04/21/09 22:01	
Kerosene	"	ND	----	14.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	14.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			101%		54 - 148 %	"				
<i>Octacosane</i>			116%		62 - 142 %	"				
BSD0221-03 (Area2-F4-14)		Soil		Sampled: 04/21/09 09:30						
Lube Oil	NWTPH-Dx	52.9	----	39.9	mg/kg dry	1x	9D21051	04/21/09 16:45	04/21/09 22:23	Q1
Kerosene	"	ND	----	16.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	30.8	----	16.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			104%		54 - 148 %	"				
<i>Octacosane</i>			117%		62 - 142 %	"				
BSD0221-04 (Area1-F13-9)		Soil		Sampled: 04/21/09 10:00						
Lube Oil	NWTPH-Dx	305	----	119	mg/kg dry	1x	9D21051	04/21/09 16:45	04/21/09 22:45	Q1
Kerosene	"	202	----	47.6	"	"	"	"	"	A-01, QP
Diesel Range Hydrocarbons	"	350	----	47.6	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			93.2%		54 - 148 %	"				
<i>Octacosane</i>			107%		62 - 142 %	"				
BSD0221-05 (Area1-F12-7)		Soil		Sampled: 04/21/09 10:20						
Lube Oil	NWTPH-Dx	ND	----	30.6	mg/kg dry	1x	9D21051	04/21/09 16:45	04/21/09 23:07	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.3%		54 - 148 %	"				
<i>Octacosane</i>			113%		62 - 142 %	"				

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/22/09 15:52
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0221-06 (Area1-C13-6)		Soil			Sampled: 04/21/09 13:30					
Lube Oil	NWTPH-Dx	ND	----	30.7	mg/kg dry	1x	9D21051	04/21/09 16:45	04/21/09 23:29	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			96.2%		54 - 148 %	"				"
<i>Octacosane</i>			111%		62 - 142 %	"				"
BSD0221-07 (Area1-D12-9)		Soil			Sampled: 04/21/09 14:15					
Lube Oil	NWTPH-Dx	412	----	116	mg/kg dry	1x	9D21051	04/21/09 16:45	04/22/09 01:18	Q1
Kerosene	"	336	----	46.5	"	"	"	"	"	A-01, QP
Diesel Range Hydrocarbons	"	583	----	46.5	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			91.2%		54 - 148 %	"				"
<i>Octacosane</i>			109%		62 - 142 %	"				"
BSD0221-08 (Area1-E12-9)		Soil			Sampled: 04/21/09 14:30					
Lube Oil	NWTPH-Dx	271	----	115	mg/kg dry	1x	9D21051	04/21/09 16:45	04/22/09 01:39	Q1
Kerosene	"	285	----	45.8	"	"	"	"	"	A-01, QP
Diesel Range Hydrocarbons	"	479	----	45.8	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			94.4%		54 - 148 %	"				"
<i>Octacosane</i>			113%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/22/09 15:52

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0221-01	(Area1-G13-9)	Soil		Sampled: 04/21/09 09:00						
Lead	EPA 6020	1.38	----	0.601	mg/kg dry	1x	9D21053	04/21/09 20:34	04/22/09 09:19	
BSD0221-02	(Area1-G12-9)	Soil		Sampled: 04/21/09 09:15						
Lead	EPA 6020	2.46	----	0.753	mg/kg dry	1x	9D21053	04/21/09 20:34	04/22/09 09:26	
BSD0221-03	(Area2-F4-14)	Soil		Sampled: 04/21/09 09:30						
Lead	EPA 6020	28.8	----	0.798	mg/kg dry	1x	9D21053	04/21/09 20:34	04/22/09 09:32	
BSD0221-04	(Area1-F13-9)	Soil		Sampled: 04/21/09 10:00						
Lead	EPA 6020	24.7	----	2.34	mg/kg dry	1x	9D21053	04/21/09 20:34	04/22/09 09:38	
BSD0221-05	(Area1-F12-7)	Soil		Sampled: 04/21/09 10:20						
Lead	EPA 6020	2.49	----	0.615	mg/kg dry	1x	9D21053	04/21/09 20:34	04/22/09 10:04	
BSD0221-06	(Area1-C13-6)	Soil		Sampled: 04/21/09 13:30						
Lead	EPA 6020	1.31	----	0.618	mg/kg dry	1x	9D21053	04/21/09 20:34	04/22/09 10:10	
BSD0221-07	(Area1-D12-9)	Soil		Sampled: 04/21/09 14:15						
Lead	EPA 6020	34.5	----	2.33	mg/kg dry	1x	9D21053	04/21/09 20:34	04/22/09 10:16	
BSD0221-08	(Area1-E12-9)	Soil		Sampled: 04/21/09 14:30						
Lead	EPA 6020	74.7	----	2.29	mg/kg dry	1x	9D21053	04/21/09 20:34	04/22/09 10:23	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/22/09 15:52

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0221-01 (Area1-G13-9)		Soil		Sampled: 04/21/09 09:00						
Benzene	EPA 8260B	ND	----	0.000849	mg/kg dry	1x	9D21031	04/21/09 17:00	04/21/09 17:14	
Ethylbenzene	"	ND	----	0.00226	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000566	"	"	"	"	"	
Naphthalene	"	ND	----	0.00566	"	"	"	"	"	
Toluene	"	ND	----	0.000849	"	"	"	"	"	
o-Xylene	"	ND	----	0.00283	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00283	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00566	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				123%		70 - 140 %	"			"
<i>Toluene-d8</i>				96.5%		70 - 130 %	"			"
<i>4-BFB</i>				100%		70 - 130 %	"			"
BSD0221-02RE1 (Area1-G12-9)		Soil		Sampled: 04/21/09 09:15						
Benzene	EPA 8260B	ND	----	0.00135	mg/kg dry	1x	9D21031	04/21/09 17:00	04/21/09 23:11	
Ethylbenzene	"	ND	----	0.00361	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000903	"	"	"	"	"	
Naphthalene	"	ND	----	0.00903	"	"	"	"	"	I
Toluene	"	ND	----	0.00135	"	"	"	"	"	
o-Xylene	"	ND	----	0.00452	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00452	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00903	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				121%		70 - 140 %	"			"
<i>Toluene-d8</i>				110%		70 - 130 %	"			"
<i>4-BFB</i>				128%		70 - 130 %	"			I
BSD0221-03 (Area2-F4-14)		Soil		Sampled: 04/21/09 09:30						
Naphthalene	EPA 8260B	ND	----	0.00888	mg/kg dry	1x	9D21031	04/21/09 17:00	04/21/09 18:05	I
<i>Surrogate(s): 1,2-DCA-d4</i>				115%		70 - 140 %	"			I
<i>Toluene-d8</i>				125%		70 - 130 %	"			I
<i>4-BFB</i>				122%		70 - 130 %	"			I

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/22/09 15:52
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0221-04RE1 (Area1-F13-9)		Soil		Sampled: 04/21/09 10:00						
Ethylbenzene	EPA 8260B	ND	----	0.0129	mg/kg dry	1x	9D21031	04/21/09 17:00	04/21/09 22:20	I
Methyl tert-butyl ether	"	ND	----	0.00322	"	"	"	"	"	I
Naphthalene	"	ND	----	0.0322	"	"	"	"	"	I
o-Xylene	"	ND	----	0.0161	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.0161	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.0322	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>111%</i>		<i>70 - 140 %</i>					<i>I</i>
<i>Toluene-d8</i>			<i>137%</i>		<i>70 - 130 %</i>					<i>I, ZI</i>
<i>4-BFB</i>			<i>137%</i>		<i>70 - 130 %</i>					<i>I, ZI</i>

BSD0221-05RE1 (Area1-F12-7)		Soil		Sampled: 04/21/09 10:20							P13
Benzene	EPA 8260B	ND	----	0.000620	mg/kg dry	1x	9D21031	04/21/09 17:00	04/21/09 21:54		
Ethylbenzene	"	ND	----	0.00165	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000414	"	"	"	"	"		
Naphthalene	"	ND	----	0.00414	"	"	"	"	"		
Toluene	"	ND	----	0.000620	"	"	"	"	"		
o-Xylene	"	ND	----	0.00207	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00207	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00414	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>124%</i>		<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>95.6%</i>		<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>99.5%</i>		<i>70 - 130 %</i>						

BSD0221-06RE1 (Area1-C13-6)		Soil		Sampled: 04/21/09 13:30							P13
Benzene	EPA 8260B	ND	----	0.000917	mg/kg dry	1x	9D21031	04/21/09 17:00	04/21/09 21:29		
Ethylbenzene	"	ND	----	0.00244	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000611	"	"	"	"	"		
Naphthalene	"	ND	----	0.00611	"	"	"	"	"		
Toluene	"	ND	----	0.000917	"	"	"	"	"		
o-Xylene	"	ND	----	0.00306	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00306	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00611	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>134%</i>		<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>96.1%</i>		<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>106%</i>		<i>70 - 130 %</i>						

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/22/09 15:52
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0221-07 (Area1-D12-9)		Soil		Sampled: 04/21/09 14:15						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00324	mg/kg dry	1x	9D21031	04/21/09 17:00	04/21/09 19:47	I
Naphthalene	"	ND	----	0.0324	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>121%</i>		<i>70 - 140 %</i>	"			"	<i>I</i>
<i>Toluene-d8</i>			<i>131%</i>		<i>70 - 130 %</i>	"			"	<i>ZI, I</i>
<i>4-BFB</i>			<i>129%</i>		<i>70 - 130 %</i>	"			"	<i>I</i>
BSD0221-08 (Area1-E12-9)		Soil		Sampled: 04/21/09 14:30						
Benzene	EPA 8260B	0.00565	----	0.00516	mg/kg dry	1x	9D21031	04/21/09 17:00	04/21/09 20:12	
Ethylbenzene	"	ND	----	0.0138	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.00344	"	"	"	"	"	
Naphthalene	"	ND	----	0.0344	"	"	"	"	"	I
Toluene	"	ND	----	0.00516	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>105%</i>		<i>70 - 140 %</i>	"			"	
<i>Toluene-d8</i>			<i>129%</i>		<i>70 - 130 %</i>	"			"	<i>I</i>
<i>4-BFB</i>			<i>140%</i>		<i>70 - 130 %</i>	"			"	<i>I, ZX</i>

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0221-03 (Area2-F4-14)		Soil		Sampled: 04/21/09 09:30						
Benzene	EPA 8260B	0.0905	0.0215	0.0431	mg/kg dry	1x	9D21039	04/21/09 17:28	04/21/09 19:23	
Ethylbenzene	"	ND	0.0259	0.215	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	0.0215	0.108	"	"	"	"	"	
Toluene	"	0.0409	0.0215	0.215	"	"	"	"	"	J
o-Xylene	"	ND	0.0366	0.215	"	"	"	"	"	
m,p-Xylene	"	ND	0.0452	0.431	"	"	"	"	"	
Xylenes (total)	"	ND	0.0668	0.646	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			92.7%		75 - 125 %	"				"
<i>Toluene-d8</i>			92.8%		75 - 125 %	"				"
<i>4-BFB</i>			97.8%		75 - 125 %	"				"
BSD0221-04 (Area1-F13-9)		Soil		Sampled: 04/21/09 10:00						
Benzene	EPA 8260B	0.233	0.0970	0.194	mg/kg dry	1x	9D21039	04/21/09 17:28	04/21/09 19:50	
Toluene	"	ND	0.0970	0.970	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			94.1%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.6%		75 - 125 %	"				"
<i>4-BFB</i>			96.6%		75 - 125 %	"				"
BSD0221-07 (Area1-D12-9)		Soil		Sampled: 04/21/09 14:15						
Benzene	EPA 8260B	ND	0.103	0.207	mg/kg dry	1x	9D21039	04/21/09 17:28	04/21/09 21:11	
Ethylbenzene	"	ND	0.124	1.03	"	"	"	"	"	
Toluene	"	ND	0.103	1.03	"	"	"	"	"	
o-Xylene	"	ND	0.176	1.03	"	"	"	"	"	
m,p-Xylene	"	ND	0.217	2.07	"	"	"	"	"	
Xylenes (total)	"	ND	0.320	3.10	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			97.5%		75 - 125 %	"				"
<i>Toluene-d8</i>			90.4%		75 - 125 %	"				"
<i>4-BFB</i>			94.5%		75 - 125 %	"				"
BSD0221-08 (Area1-E12-9)		Soil		Sampled: 04/21/09 14:30						
o-Xylene	EPA 8260B	ND	0.182	1.07	mg/kg dry	1x	9D22011	04/21/09 17:00	04/22/09 12:54	
m,p-Xylene	"	ND	0.224	2.14	"	"	"	"	"	
Xylenes (total)	"	ND	0.331	3.20	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			95.4%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.0%		75 - 125 %	"				"
<i>4-BFB</i>			94.6%		75 - 125 %	"				"

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Kate Haney, Project Manager

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/22/09 15:52

Physical Parameters by APHA/ASTM/EPA Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0221-01 (Area1-G13-9)		Soil								Sampled: 04/21/09 09:00
Dry Weight	BSOPSP003R0 8	81.6	----	1.00	%	1x	9D21028	04/21/09 16:00	04/22/09 00:00	
BSD0221-02 (Area1-G12-9)		Soil								Sampled: 04/21/09 09:15
Dry Weight	BSOPSP003R0 8	67.8	----	1.00	%	1x	9D21028	04/21/09 16:00	04/22/09 00:00	
BSD0221-03 (Area2-F4-14)		Soil								Sampled: 04/21/09 09:30
Dry Weight	BSOPSP003R0 8	62.6	----	1.00	%	1x	9D21028	04/21/09 16:00	04/22/09 00:00	
BSD0221-04 (Area1-F13-9)		Soil								Sampled: 04/21/09 10:00
Dry Weight	BSOPSP003R0 8	20.7	----	1.00	%	1x	9D21028	04/21/09 16:00	04/22/09 00:00	
BSD0221-05 (Area1-F12-7)		Soil								Sampled: 04/21/09 10:20
Dry Weight	BSOPSP003R0 8	80.4	----	1.00	%	1x	9D21028	04/21/09 16:00	04/22/09 00:00	
BSD0221-06 (Area1-C13-6)		Soil								Sampled: 04/21/09 13:30
Dry Weight	BSOPSP003R0 8	80.1	----	1.00	%	1x	9D21028	04/21/09 16:00	04/22/09 00:00	
BSD0221-07 (Area1-D12-9)		Soil								Sampled: 04/21/09 14:15
Dry Weight	BSOPSP003R0 8	21.4	----	1.00	%	1x	9D21028	04/21/09 16:00	04/22/09 00:00	
BSD0221-08 (Area1-E12-9)		Soil								Sampled: 04/21/09 14:30
Dry Weight	BSOPSP003R0 8	21.5	----	1.00	%	1x	9D21028	04/21/09 16:00	04/22/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D21045 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D21045-BLK1)										Extracted: 04/21/09 17:02				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/22/09 01:40	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/22/09 01:40</i>
LCS (9D21045-BS1)										Extracted: 04/21/09 17:02				
Gasoline Range Hydrocarbons	NWTPH-Gx	50.2	1.40	5.00	mg/kg wet	1x	--	50.0	100%	(80-120)	--	--	04/22/09 02:12	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.5%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/22/09 02:12</i>
Duplicate (9D21045-DUP1)										QC Source: BSD0221-01		Extracted: 04/21/09 17:02		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.52	5.42	mg/kg dry	1x	ND	--	--	--	NR (40)		04/22/09 05:59	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 109%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/22/09 05:59</i>
Duplicate (9D21045-DUP2)										QC Source: BSD0211-17		Extracted: 04/21/09 17:02		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.42	5.06	mg/kg dry	1x	ND	--	--	--	NR (40)		04/22/09 11:54	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 91.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/22/09 11:54</i>
Matrix Spike (9D21045-MS1)										QC Source: BSD0221-01		Extracted: 04/21/09 17:02		
Gasoline Range Hydrocarbons	NWTPH-Gx	59.4	1.52	5.42	mg/kg dry	1x	ND	42.9	138%	(75-130)	--	--	04/22/09 06:31	MI
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 121%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/22/09 06:31</i>

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D21051 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D21051-BLK1)

Extracted: 04/21/09 16:45

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/21/09 19:17	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/21/09 19:17</i>	
<i>Octacosane</i>			<i>115%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D21051-BS1)

Extracted: 04/21/09 16:45

Lube Oil	NWTPH-Dx	69.2	---	25.0	mg/kg wet	1x	--	66.7	104%	(63-125)	--	--	04/21/09 20:32	
Diesel Range Hydrocarbons	"	76.4	---	10.0	"	"	--	"	115%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/21/09 20:32</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D21051-DUP1)

QC Source: BSD0221-01

Extracted: 04/21/09 16:45

Lube Oil	NWTPH-Dx	ND	---	30.5	mg/kg dry	1x	ND	--	--	--	0.175% (50)	--	04/21/09 20:54	
Kerosene	"	ND	---	12.2	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.2	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/21/09 20:54</i>	
<i>Octacosane</i>			<i>119%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D21051-MS1)

QC Source: BSD0221-01

Extracted: 04/21/09 16:45

Lube Oil	NWTPH-Dx	90.1	---	30.3	mg/kg dry	1x	3.92	80.9	106%	(26-150)	--	--	04/21/09 21:16	
Diesel Range Hydrocarbons	"	95.5	---	12.1	"	"	ND	"	118%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>98.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/21/09 21:16</i>	
<i>Octacosane</i>			<i>116%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D21053	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D21053-BLK1)								Extracted: 04/21/09 20:34						
Lead	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	04/22/09 08:48	
LCS (9D21053-BS1)								Extracted: 04/21/09 20:34						
Lead	EPA 6020	39.9	---	0.515	mg/kg wet	1x	--	41.2	96.9%	(80-120)	--	--	04/22/09 08:54	
Duplicate (9D21053-DUP1)				QC Source: BSD0221-01				Extracted: 04/21/09 20:34						
Lead	EPA 6020	1.53	---	0.607	mg/kg dry	1x	1.38	--	--	--	10.5% (20)	--	04/22/09 09:13	
Matrix Spike (9D21053-MS1)				QC Source: BSD0221-01				Extracted: 04/21/09 20:34						
Lead	EPA 6020	48.6	---	0.613	mg/kg dry	1x	1.38	49.0	96.3%	(75-125)	--	--	04/22/09 09:07	
Post Spike (9D21053-PS1)				QC Source: BSD0221-01				Extracted: 04/21/09 20:34						
Lead	EPA 6020	0.103	---		ug/ml	1x	0.00229	0.100	100%	(80-120)	--	--	04/22/09 09:01	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D21031 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D21031-BLK1)													Extracted: 04/21/09 13:25	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/21/09 16:28	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>124%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/21/09 16:28</i>	
<i>Toluene-d8</i>			<i>93.5%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9D21031-BS1)													Extracted: 04/21/09 13:25	
Benzene	EPA 8260B	0.0445	---	0.00150	mg/kg wet	1x	--	0.0500	88.9%	(70-125)	--	--	04/21/09 15:37	
Ethylbenzene	"	0.0455	---	0.00400	"	"	--	"	91.1%	"	--	--	"	
Methyl tert-butyl ether	"	0.0500	---	0.00100	"	"	--	"	100%	(70-130)	--	--	"	
Naphthalene	"	0.0457	---	0.0100	"	"	--	"	91.5%	"	--	--	"	
Toluene	"	0.0430	---	0.00150	"	"	--	"	86.0%	(70-125)	--	--	"	
Total Xylenes	"	0.137	---	0.0100	"	"	--	0.150	91.3%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/21/09 15:37</i>	
<i>Toluene-d8</i>			<i>96.0%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D21031-BSD1)													Extracted: 04/21/09 13:25	
Benzene	EPA 8260B	0.0476	---	0.00150	mg/kg wet	1x	--	0.0500	95.2%	(70-125)	6.76% (30)		04/21/09 16:02	
Ethylbenzene	"	0.0477	---	0.00400	"	"	--	"	95.3%	"	4.59%	"	"	
Methyl tert-butyl ether	"	0.0477	---	0.00100	"	"	--	"	95.4%	(70-130)	4.71%	"	"	
Naphthalene	"	0.0447	---	0.0100	"	"	--	"	89.4%	"	2.32%	"	"	
Toluene	"	0.0454	---	0.00150	"	"	--	"	90.9%	(70-125)	5.54%	"	"	
Total Xylenes	"	0.143	---	0.0100	"	"	--	0.150	95.2%	(70-130)	4.15%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>97.2%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/21/09 16:02</i>	
<i>Toluene-d8</i>			<i>96.0%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>104%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D21039 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D21039-BLK1)													Extracted: 04/21/09 14:28	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/21/09 18:03	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.9% Limits: 75-125% "</i>														
<i>Toluene-d8 96.2% 75-125% "</i>														
<i>4-BFB 101% 75-125% "</i>														

LCS (9D21039-BS1)													Extracted: 04/21/09 14:28	
Benzene	EPA 8260B	3.89	0.0100	0.0200	mg/kg wet	1x	--	4.00	97.2%	(75-125)	--	--	04/21/09 16:34	
Ethylbenzene	"	3.77	0.0120	0.100	"	"	--	"	94.4%	"	--	--	"	
Methyl tert-butyl ether	"	4.02	0.0100	0.0500	"	"	--	"	100%	"	--	--	"	
Naphthalene	"	3.71	1.10	2.00	"	"	--	"	92.7%	(60-140)	--	--	"	
Toluene	"	3.69	0.0100	0.100	"	"	--	"	92.3%	(75-125)	--	--	"	
o-Xylene	"	3.72	0.0170	0.100	"	"	--	"	93.0%	"	--	--	"	
m,p-Xylene	"	7.47	0.0210	0.200	"	"	--	8.00	93.4%	"	--	--	"	
Xylenes (total)	"	11.2	0.0310	0.300	"	"	--	12.0	93.3%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.8% Limits: 75-125% "</i>														
<i>Toluene-d8 90.3% 75-125% "</i>														
<i>4-BFB 94.8% 75-125% "</i>														

LCS Dup (9D21039-BSD1)													Extracted: 04/21/09 14:28	
Benzene	EPA 8260B	3.76	0.0100	0.0200	mg/kg wet	1x	--	4.00	93.9%	(75-125)	3.40% (20)		04/21/09 17:01	
Ethylbenzene	"	3.67	0.0120	0.100	"	"	--	"	91.8%	"	2.77%	"	"	
Methyl tert-butyl ether	"	3.94	0.0100	0.0500	"	"	--	"	98.6%	"	1.96%	"	"	
Naphthalene	"	3.57	1.10	2.00	"	"	--	"	89.3%	(60-140)	3.71%	"	"	
Toluene	"	3.56	0.0100	0.100	"	"	--	"	89.0%	(75-125)	3.64%	"	"	
o-Xylene	"	3.62	0.0170	0.100	"	"	--	"	90.4%	"	2.83%	"	"	
m,p-Xylene	"	7.30	0.0210	0.200	"	"	--	8.00	91.2%	"	2.36%	"	"	
Xylenes (total)	"	10.9	0.0310	0.300	"	"	--	12.0	91.0%	"	2.52%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.4% Limits: 75-125% "</i>														
<i>Toluene-d8 93.2% 75-125% "</i>														
<i>4-BFB 94.4% 75-125% "</i>														

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/22/09 15:52
--	---	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22011 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D22011-BLK1)													Extracted: 04/22/09 09:00	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/22/09 12:27	
Ethylbenzene	"	0.0120	0.0120	0.100	"	"	--	--	--	--	--	--	"	J
Methyl tert-butyl ether	"	0.0130	0.0100	0.0500	"	"	--	--	--	--	--	--	"	J
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	0.0100	0.0100	0.100	"	"	--	--	--	--	--	--	"	J
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	0.0290	0.0210	0.200	"	"	--	--	--	--	--	--	"	J
Xylenes (total)	"	0.0400	0.0310	0.300	"	"	--	--	--	--	--	--	"	J
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 89.6% Limits: 75-125% "</i>													<i>04/22/09 12:27</i>	
<i>Toluene-d8 93.8% 75-125% "</i>													<i>"</i>	
<i>4-BFB 97.4% 75-125% "</i>													<i>"</i>	

LCS (9D22011-BS1)													Extracted: 04/22/09 09:00	
Benzene	EPA 8260B	3.65	0.0100	0.0200	mg/kg wet	1x	--	4.00	91.3%	(75-125)	--	--	04/22/09 11:29	
Ethylbenzene	"	3.76	0.0120	0.100	"	"	--	"	94.0%	"	--	--	"	
Methyl tert-butyl ether	"	4.12	0.0100	0.0500	"	"	--	"	103%	"	--	--	"	
Naphthalene	"	3.64	1.10	2.00	"	"	--	"	91.1%	(60-140)	--	--	"	
Toluene	"	3.57	0.0100	0.100	"	"	--	"	89.2%	(75-125)	--	--	"	
o-Xylene	"	3.67	0.0170	0.100	"	"	--	"	91.8%	"	--	--	"	
m,p-Xylene	"	7.33	0.0210	0.200	"	"	--	8.00	91.6%	"	--	--	"	
Xylenes (total)	"	11.0	0.0310	0.300	"	"	--	12.0	91.6%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 97.8% Limits: 75-125% "</i>													<i>04/22/09 11:29</i>	
<i>Toluene-d8 91.0% 75-125% "</i>													<i>"</i>	
<i>4-BFB 92.3% 75-125% "</i>													<i>"</i>	

LCS Dup (9D22011-BSD1)													Extracted: 04/22/09 09:00	
Benzene	EPA 8260B	3.69	0.0100	0.0200	mg/kg wet	1x	--	4.00	92.2%	(75-125)	0.899% (20)		04/22/09 11:56	
Ethylbenzene	"	3.72	0.0120	0.100	"	"	--	"	93.1%	"	0.962%	"	"	
Methyl tert-butyl ether	"	4.13	0.0100	0.0500	"	"	--	"	103%	"	0.364%	"	"	
Naphthalene	"	3.87	1.10	2.00	"	"	--	"	96.8%	(60-140)	6.15%	"	"	
Toluene	"	3.54	0.0100	0.100	"	"	--	"	88.4%	(75-125)	0.844%	"	"	
o-Xylene	"	3.58	0.0170	0.100	"	"	--	"	89.6%	"	2.34%	"	"	
m,p-Xylene	"	7.27	0.0210	0.200	"	"	--	8.00	90.8%	"	0.809%	"	"	
Xylenes (total)	"	10.9	0.0310	0.300	"	"	--	12.0	90.4%	"	1.32%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.8% Limits: 75-125% "</i>													<i>04/22/09 11:56</i>	
<i>Toluene-d8 90.8% 75-125% "</i>													<i>"</i>	
<i>4-BFB 94.0% 75-125% "</i>													<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/22/09 15:52
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D21028 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D21028-BLK1)										Extracted: 04/21/09 12:18				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/22/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/22/09 15:52

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/22/09 15:52

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the kerosene range are primarily due to overlap from a heavy oil product.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z1 - Surrogate recovery was above acceptance limits.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/21/09

Date: 4/21/09

Date: 4/21/09

Work Order No. BAD221

Time: 1605

Time: 16:09

Time: 16:30

Client: _____

Initials: FL

Initials: CL

Initials: CL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container _____ Sign By

____ Bubble Bags _____ Styrofoam

____ Box

____ On Bottles _____ Date

____ Foam Packs

____ None/Other _____

None

None Other Bubble wrap

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 10.9 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N _____

Adequate Volume? or N _____
(for tests requested)

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 30, 2009

Melanie Young
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: COP Westlake & Mercer Cleanup Project

Enclosed are the results of analyses for samples received by the laboratory on 04/21/09 16:05.
The following list is a summary of the Work Orders contained in this report, generated on 04/30/09
16:58.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0222	COP Westlake & Mercer Clea	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

04/30/09 16:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CI-TK1	BSD0222-01	Water	04/21/09 11:00	04/21/09 16:05

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 04/30/09 16:58
--	--	-----------------------------------

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0222-01 (CI-TK1)		Water			Sampled: 04/21/09 11:00					
Gx Range Hydrocarbons	NWTPH-HCID	DET	----	0.248	mg/l	1x	9D23045	04/24/09 18:34	04/27/09 20:42	Q9
Diesel Range Hydrocarbons	"	DET	----	0.624	"	"	"	"	"	Q9
Lube Oil Range Hydrocarbons	"	DET	----	0.624	"	"	"	"	"	Q9
<i>Surrogate(s): 2-FBP</i>				70.7%	50 - 150 %	"			"	
<i>Octacosane</i>				67.7%	50 - 150 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	COP Westlake & Mercer Cleanup Project	Report Created:
	Project Number:	33759383.05000	04/30/09 16:58
	Project Manager:	Melanie Young	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0222-01RE1 (CI-TK1)		Water			Sampled: 04/21/09 11:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	430	----	50.0	ug/l	1x	9D27022	04/27/09 09:35	04/27/09 12:21	
<i>Surrogate(s): 4-BFB (FID)</i>			96.1%		70 - 145 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 04/30/09 16:58
--	--	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0222-01 (CI-TK1)		Water				Sampled: 04/21/09 11:00				
Lube Oil	NWTPH-Dx	1.90	----	0.495	mg/l	1x	9D23045	04/24/09 18:34	04/27/09 20:42	Q7
Diesel Range Hydrocarbons	"	7.36	----	0.248	"	"	"	"	"	Q11
Surrogate(s): 2-FBP			89.0%		53 - 120 %	"			"	
Octacosane			90.8%		68 - 123 %	"			"	
BSD0222-01RE1 (CI-TK1)		Water				Sampled: 04/21/09 11:00				
Kerosene	NWTPH-Dx	4.89	----	1.24	mg/l	5x	9D23045	04/24/09 18:34	04/30/09 02:49	Q8
Surrogate(s): 2-FBP			129%		53 - 125 %	"			"	ZX
Octacosane			82.2%		68 - 125 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	COP Westlake & Mercer Cleanup Project	Report Created:
	Project Number:	33759383.05000	04/30/09 16:58
	Project Manager:	Melanie Young	

BTEX by EPA Method 8021B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0222-01RE1 (CI-TK1)		Water			Sampled: 04/21/09 11:00					
Benzene	EPA 8021B	ND	----	0.500	ug/l	1x	9D27022	04/27/09 09:35	04/27/09 12:21	
Toluene	"	ND	----	0.500	"	"	"	"	"	"
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	"
Xylenes (total)	"	2.38	----	1.00	"	"	"	"	"	"
<i>Surrogate(s): 4-BFB (PID)</i>			96.1%		80 - 130 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	COP Westlake & Mercer Cleanup Project	Report Created:
	Project Number:	33759383.05000	04/30/09 16:58
	Project Manager:	Melanie Young	

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0222-01 (CI-TK1)										
		Water								
								Sampled: 04/21/09 11:00		
Lead	EPA 6020	0.0618	----	0.00100	mg/l	1x	9D28029	04/28/09 13:29	04/29/09 13:12	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000
 Project Manager: Melanie Young

Report Created:
 04/30/09 16:58

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0222-01 (CI-TK1)		Water			Sampled: 04/21/09 11:00					
Acetone	EPA 8260B	ND	----	10.0	ug/l	1x	9D27060	04/27/09 16:37	04/27/09 22:05	
Benzene	"	ND	----	0.200	"	"	"	"	"	
Bromobenzene	"	ND	----	0.500	"	"	"	"	"	
Bromochloromethane	"	ND	----	0.250	"	"	"	"	"	
Bromodichloromethane	"	ND	----	0.200	"	"	"	"	"	
Bromoform	"	ND	----	0.250	"	"	"	"	"	
Bromomethane	"	ND	----	2.00	"	"	"	"	"	
2-Butanone	"	ND	----	2.00	"	"	"	"	"	
n-Butylbenzene	"	0.580	----	0.200	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	0.200	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	0.500	"	"	"	"	"	
Carbon disulfide	"	ND	----	0.500	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.200	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Chloroethane	"	ND	----	1.00	"	"	"	"	"	
Chloroform	"	ND	----	0.200	"	"	"	"	"	
Chloromethane	"	ND	----	1.00	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	0.500	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	0.500	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	1.00	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	0.200	"	"	"	"	"	
Dibromomethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.200	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	0.500	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	0.200	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	0.500	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.200	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.200	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	2.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	1.00	"	"	"	"	"	
n-Hexane	"	ND	----	1.00	"	"	"	"	"	
2-Hexanone	"	ND	----	2.00	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0222-01 (CI-TK1)		Water			Sampled: 04/21/09 11:00					
Isopropylbenzene	EPA 8260B	ND	----	0.500	ug/l	1x	9D27060	04/27/09 16:37	04/27/09 22:05	
p-Isopropyltoluene	"	0.350	----	0.200	"	"	"	"	"	
4-Methyl-2-pentanone	"	2.74	----	2.00	"	"	"	"	"	
Methylene chloride	"	ND	----	5.00	"	"	"	"	"	
Naphthalene	"	ND	----	2.50	"	"	"	"	"	
n-Propylbenzene	"	ND	----	0.500	"	"	"	"	"	
Styrene	"	ND	----	0.500	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	1.00	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	0.580	----	0.500	"	"	"	"	"	
Tetrachloroethene	"	ND	----	0.200	"	"	"	"	"	
Toluene	"	ND	----	0.200	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	0.200	"	"	"	"	"	
Trichloroethene	"	ND	----	0.200	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	0.500	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	0.500	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	0.970	----	0.200	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	2.28	----	0.500	"	"	"	"	"	
Vinyl chloride	"	ND	----	0.200	"	"	"	"	"	
o-Xylene	"	ND	----	0.250	"	"	"	"	"	
m,p-Xylene	"	0.530	----	0.500	"	"	"	"	"	
Total Xylenes	"	ND	----	0.750	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>107%</i>			<i>76 - 138 %</i>			<i>"</i>
	<i>Toluene-d8</i>			<i>103%</i>			<i>80 - 120 %</i>			<i>"</i>
	<i>4-BFB</i>			<i>97.9%</i>			<i>80 - 120 %</i>			<i>"</i>

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Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23045 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D23045-BLK2)

Extracted: 04/23/09 18:34

Gx Range Hydrocarbons	NWTPH-HCI D	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	04/27/09 18:50	
Kerosene Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Insulating Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Heavy Fuel Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
Lube Oil Range Hydrocarbons	"	ND	---	0.630	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>65.8%</i>	<i>Limits: 50-150%</i>		<i>"</i>							<i>04/27/09 18:50</i>	
<i>Octacosane</i>			<i>72.3%</i>	<i>50-150%</i>		<i>"</i>							<i>"</i>	

LCS (9D23045-BS3)

Extracted: 04/23/09 18:34

Diesel Range Hydrocarbons	NWTPH-HCI D	DET	---	0.630	mg/l	1x	--	2.00	67.4%	(58-125)	--	--	04/27/09 19:12	MNRI
Lube Oil Range Hydrocarbons	"	DET	---	0.630	"	"	--	"	77.7%	(60-140)	--	--	"	MNRI
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>59.2%</i>	<i>Limits: 50-150%</i>		<i>"</i>							<i>04/27/09 19:12</i>	MNRI
<i>Octacosane</i>			<i>57.8%</i>	<i>50-150%</i>		<i>"</i>							<i>"</i>	MNRI

LCS Dup (9D23045-BSD3)

Extracted: 04/23/09 18:34

Diesel Range Hydrocarbons	NWTPH-HCI D	DET	---	0.630	mg/l	1x	--	2.00	72.5%	(58-125)	7.25%	(40)	04/27/09 19:57	
Lube Oil Range Hydrocarbons	"	DET	---	0.630	"	"	--	"	82.8%	(60-140)	6.32%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>56.1%</i>	<i>Limits: 50-150%</i>		<i>"</i>							<i>04/27/09 19:57</i>	
<i>Octacosane</i>			<i>53.4%</i>	<i>50-150%</i>		<i>"</i>							<i>"</i>	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9D24009 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D24009-BLK1)										Extracted: 04/24/09 11:08				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	04/24/09 13:20	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.8%</i>		<i>Limits: 70-145%</i>		<i>"</i>							04/24/09 13:20	
LCS (9D24009-BS1)										Extracted: 04/24/09 11:08				
Gasoline Range Hydrocarbons	NWTPH-Gx	1040	---	50.0	ug/l	1x	--	1000	104%	(80-120)	--	--	04/24/09 13:52	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.1%</i>		<i>Limits: 70-145%</i>		<i>"</i>							04/24/09 13:52	
Duplicate (9D24009-DUP1)										QC Source: BSD0246-02		Extracted: 04/24/09 11:08		
Gasoline Range Hydrocarbons	NWTPH-Gx	65.9	---	50.0	ug/l	1x	70.6	--	--	--	6.91% (25)		04/24/09 15:30	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 90.8%</i>		<i>Limits: 70-145%</i>		<i>"</i>							04/24/09 15:30	
Matrix Spike (9D24009-MS1)										QC Source: BSD0246-02		Extracted: 04/24/09 11:08		
Gasoline Range Hydrocarbons	NWTPH-Gx	1220	---	50.0	ug/l	1x	70.6	1000	115%	(70-135)	--	--	04/24/09 18:06	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 70-145%</i>		<i>"</i>							04/24/09 18:06	

QC Batch: 9D27022 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D27022-BLK1)										Extracted: 04/27/09 08:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	04/27/09 08:52	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.3%</i>		<i>Limits: 70-145%</i>		<i>"</i>							04/27/09 08:52	
LCS (9D27022-BS1)										Extracted: 04/27/09 08:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	1040	---	50.0	ug/l	1x	--	1000	104%	(80-120)	--	--	04/27/09 09:25	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.3%</i>		<i>Limits: 70-145%</i>		<i>"</i>							04/27/09 09:25	
Duplicate (9D27022-DUP1)										QC Source: BSD0246-01		Extracted: 04/27/09 08:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	58.5	---	50.0	ug/l	1x	62.6	--	--	--	6.66% (25)		04/27/09 11:16	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.4%</i>		<i>Limits: 70-145%</i>		<i>"</i>							04/27/09 11:16	
Matrix Spike (9D27022-MS1)										QC Source: BSD0246-01		Extracted: 04/27/09 08:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	1210	---	50.0	ug/l	1x	62.6	1000	115%	(70-135)	--	--	04/27/09 12:54	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.0%</i>		<i>Limits: 70-145%</i>		<i>"</i>							04/27/09 12:54	

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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23045 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D23045-BLK1)

Extracted: 04/23/09 18:34

Lube Oil	NWTPH-Dx	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	04/27/09 18:50	
Kerosene	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery: 80.9%		Limits: 53-120%		"							04/27/09 18:50	
Octacosane		97.1%		68-123%		"							"	

LCS (9D23045-BS1)

Extracted: 04/23/09 18:34

Lube Oil	NWTPH-Dx	1.38	---	0.500	mg/l	1x	--	2.00	69.1%	(60-125)	--	--	04/27/09 19:12	MNRI
Diesel Range Hydrocarbons	"	1.48	---	0.250	"	"	--	"	73.8%	(65-120)	--	--	"	MNRI
Surrogate(s): 2-FBP		Recovery: 72.2%		Limits: 53-120%		"							04/27/09 19:12	MNRI
Octacosane		77.6%		68-123%		"							"	MNRI

LCS Dup (9D23045-BSD1)

Extracted: 04/23/09 18:34

Lube Oil	NWTPH-Dx	1.50	---	0.500	mg/l	1x	--	2.00	75.0%	(60-125)	8.21%	(50)	04/27/09 19:57	
Diesel Range Hydrocarbons	"	1.58	---	0.250	"	"	--	"	79.2%	(65-120)	7.06%	(25)	"	
Surrogate(s): 2-FBP		Recovery: 69.0%		Limits: 53-120%		"							04/27/09 19:57	
Octacosane		71.5%		68-123%		"							"	

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BTEX by EPA Method 8021B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D24009 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D24009-BLK1)

Extracted: 04/24/09 11:08

Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	04/24/09 13:20	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery: 95.7%</i>		<i>Limits: 80-130%</i>		<i>"</i>						<i>04/24/09 13:20</i>		

LCS (9D24009-BS2)

Extracted: 04/24/09 11:08

Benzene	EPA 8021B	29.6	---	0.500	ug/l	1x	--	30.0	98.6%	(80-125)	--	--	04/24/09 14:25	
Toluene	"	29.8	---	0.500	"	"	--	"	99.3%	(80-120)	--	--	"	
Ethylbenzene	"	30.1	---	0.500	"	"	--	"	100%	(80-125)	--	--	"	
Xylenes (total)	"	89.7	---	1.00	"	"	--	90.0	99.6%	(75-120)	--	--	"	
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery: 95.7%</i>		<i>Limits: 80-130%</i>		<i>"</i>						<i>04/24/09 14:25</i>		

Duplicate (9D24009-DUP1)

QC Source: BSD0246-02

Extracted: 04/24/09 11:08

Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	NR (25)	--	04/24/09 15:30	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Ethylbenzene	"	0.956	---	0.500	"	"	1.08	--	--	--	12.2%	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	56.4%	"	"	R4
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery: 96.8%</i>		<i>Limits: 80-130%</i>		<i>"</i>						<i>04/24/09 15:30</i>		

Matrix Spike (9D24009-MS2)

QC Source: BSD0246-03

Extracted: 04/24/09 11:08

Benzene	EPA 8021B	32.5	---	0.500	ug/l	1x	ND	30.0	108%	(60-135)	--	--	04/24/09 18:38	
Toluene	"	32.0	---	0.500	"	"	ND	"	107%	(65-135)	--	--	"	
Ethylbenzene	"	32.8	---	0.500	"	"	ND	"	109%	"	--	--	"	
Xylenes (total)	"	96.8	---	1.00	"	"	ND	90.0	108%	(65-130)	--	--	"	
<i>Surrogate(s): 4-BFB (PID)</i>		<i>Recovery: 95.3%</i>		<i>Limits: 80-130%</i>		<i>"</i>						<i>04/24/09 18:38</i>		

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BTEX by EPA Method 8021B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D27022 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D27022-BLK1)

Extracted: 04/27/09 08:00

Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	04/27/09 08:52	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (PID)		Recovery: 95.6%	Limits: 80-130%		"								04/27/09 08:52	

LCS (9D27022-BS2)

Extracted: 04/27/09 08:00

Benzene	EPA 8021B	28.8	---	0.500	ug/l	1x	--	30.0	96.2%	(80-125)	--	--	04/27/09 09:57	
Toluene	"	28.4	---	0.500	"	"	--	"	94.7%	(80-120)	--	--	"	
Ethylbenzene	"	29.3	---	0.500	"	"	--	"	97.7%	(80-125)	--	--	"	
Xylenes (total)	"	86.1	---	1.00	"	"	--	90.0	95.7%	(75-120)	--	--	"	
Surrogate(s): 4-BFB (PID)		Recovery: 94.5%	Limits: 80-130%		"								04/27/09 09:57	

Duplicate (9D27022-DUP1)

QC Source: BSD0246-01

Extracted: 04/27/09 08:00

Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	49.4% (25)	--	04/27/09 11:16	R4
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	22.6%	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	NR	"	"	
Surrogate(s): 4-BFB (PID)		Recovery: 95.9%	Limits: 80-130%		"								04/27/09 11:16	

Matrix Spike (9D27022-MS2)

QC Source: BSD0246-05

Extracted: 04/27/09 08:00

Benzene	EPA 8021B	27.0	---	0.500	ug/l	1x	0.156	30.0	89.6%	(60-135)	--	--	04/27/09 13:26	
Toluene	"	26.9	---	0.500	"	"	ND	"	89.5%	(65-135)	--	--	"	
Ethylbenzene	"	27.9	---	0.500	"	"	0.193	"	92.3%	"	--	--	"	
Xylenes (total)	"	81.4	---	1.00	"	"	ND	90.0	90.4%	(65-130)	--	--	"	
Surrogate(s): 4-BFB (PID)		Recovery: 96.0%	Limits: 80-130%		"								04/27/09 13:26	

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28029 Water Preparation Method: EPA 3020A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D28029-BLK1)								Extracted: 04/28/09 13:29						
Lead	EPA 6020	ND	---	0.00100	mg/l	1x	--	--	--	--	--	--	04/29/09 11:56	
LCS (9D28029-BS1)								Extracted: 04/28/09 13:29						
Lead	EPA 6020	0.0742	---	0.00100	mg/l	1x	--	0.0800	92.8%	(80-120)	--	--	04/29/09 12:02	
Duplicate (9D28029-DUP1)				QC Source: BSD0222-01				Extracted: 04/28/09 13:29						
Lead	EPA 6020	0.0658	---	0.00100	mg/l	1x	0.0618	--	--	--	6.22% (20)	--	04/29/09 13:05	
Matrix Spike (9D28029-MS1)				QC Source: BSD0222-01				Extracted: 04/28/09 13:29						
Lead	EPA 6020	0.143	---	0.00100	mg/l	1x	0.0618	0.0800	101%	(75-125)	--	--	04/29/09 12:34	
Post Spike (9D28029-PS1)				QC Source: BSD0222-01				Extracted: 04/28/09 13:29						
Lead	EPA 6020	0.163	---		ug/ml	1x	0.0618	0.100	100%	(80-120)	--	--	04/29/09 12:09	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

04/30/09 16:58

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9D27060

Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D27060-BLK1)													Extracted: 04/27/09 16:37	
Acetone	EPA 8260B	ND	---	10.0	ug/l	1x	--	--	--	--	--	--	04/27/09 21:08	
Benzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 04/30/09 16:58
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D27060 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D27060-BLK1)													Extracted: 04/27/09 16:37	
Hexachlorobutadiene	EPA 8260B	ND	---	2.50	ug/l	1x	--	--	--	--	--	--	04/27/09 21:08	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.750	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>105%</i>	<i>Limits:</i>	<i>76-138%</i>	<i>"</i>							<i>04/27/09 21:08</i>	
	<i>Toluene-d8</i>		<i>101%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>101%</i>		<i>80-120%</i>	<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 04/30/09 16:58
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D27060 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D27060-BS1)													MNR1	
										Extracted: 04/27/09 16:37				
Benzene	EPA 8260B	40.4	---	0.200	ug/l	1x	--	40.0	101%	(80-120)	--	--	04/27/09 18:16	
Chlorobenzene	"	40.6	---	0.200	"	"	--	"	101%	"	--	--	"	
1,1-Dichloroethene	"	40.4	---	0.200	"	"	--	"	101%	"	--	--	"	
Methyl tert-butyl ether	"	41.5	---	1.00	"	"	--	"	104%	"	--	--	"	
Toluene	"	40.2	---	0.200	"	"	--	"	100%	(75-125)	--	--	"	
Trichloroethene	"	39.2	---	0.200	"	"	--	"	98.0%	(80-120)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 102%</i>		<i>Limits: 76-138%</i>		<i>"</i>						<i>04/27/09 18:16</i>		
<i>Toluene-d8</i>		<i>100%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>99.6%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9D27060-BSD1)													MNR1	
										Extracted: 04/27/09 16:37				
Benzene	EPA 8260B	41.4	---	0.200	ug/l	1x	--	40.0	103%	(80-120)	2.50% (20)		04/27/09 18:44	
Chlorobenzene	"	41.1	---	0.200	"	"	--	"	103%	"	1.42%	"	"	
1,1-Dichloroethene	"	40.1	---	0.200	"	"	--	"	100%	"	0.572%	"	"	
Methyl tert-butyl ether	"	42.0	---	1.00	"	"	--	"	105%	"	1.20%	"	"	
Toluene	"	40.5	---	0.200	"	"	--	"	101%	(75-125)	0.843%	"	"	
Trichloroethene	"	40.7	---	0.200	"	"	--	"	102%	(80-120)	3.71%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 103%</i>		<i>Limits: 76-138%</i>		<i>"</i>						<i>04/27/09 18:44</i>		
<i>Toluene-d8</i>		<i>99.8%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>99.3%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

04/30/09 16:58

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 6020	Water	X	X
EPA 8021B	Water	X	X
EPA 8260B	Water	X	X
NWTPH-Dx	Water		X
NWTPH-Gx	Water		X
NWTPH-HCID	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000
 Project Manager: Melanie Young

Report Created:
 04/30/09 16:58

Notes and Definitions

Report Specific Notes:

- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Q11 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel.
- Q7 - The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- Q8 - Detected hydrocarbons in the gasoline range appear to be due to overlap of diesel range hydrocarbons.
- Q9 - Hydrocarbon pattern most closely resembles Weathered Diesel.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: 392

Date: 4/21/09

Date: 4/21/09

Date: 4/21/09

Work Order No. B5D0222

Time: 1605

Time: 1635

Time: 1655

Client: _____

Initials: FL

Initials: FL

Initials: FL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

_____ Ship Container

_____ Sign By

Bubble Bags

_____ Styrofoam

_____ Box

_____ On Bottles

_____ Date

Foam Packs

_____ None/Other _____

None

_____ None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

_____ Fed Ex _____ Client

_____ Loose Ice _____

Y or N or NA

_____ UPS TA Courier

_____ None/Other _____

Initial/date/time _____

_____ DHL _____ Mid Valley

_____ Senvoy _____ TDP

_____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 7.9 or NA comments _____

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact?

or N _____

Metals Preserved?

or N or NA _____

Provided by TA?

or N _____

Client QAPP Preserved?

Y or N or NA _____

Correct Type?

Y or N NA *No Analysis logged-in*

Adequate Volume?
(for tests requested)

or N _____

#Containers match COC? or N _____

Water VOAs: Headspace? Y or or NA _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 23, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/22/09 16:20.
The following list is a summary of the Work Orders contained in this report, generated on 04/23/09
16:56.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0232	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 16:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-A9-14	BSD0232-01	Soil	04/22/09 09:30	04/22/09 16:20
Area1-A8-14	BSD0232-02	Soil	04/22/09 09:40	04/22/09 16:20
Area1-A7-14	BSD0232-03	Soil	04/22/09 09:50	04/22/09 16:20
Area1-A6-14	BSD0232-04	Soil	04/22/09 10:00	04/22/09 16:20
Area1-A5-14	BSD0232-05	Soil	04/22/09 10:40	04/22/09 16:20
Area1-A4-14	BSD0232-06	Soil	04/22/09 10:50	04/22/09 16:20
Dup-8	BSD0232-07	Soil	04/22/09 11:00	04/22/09 16:20
Area1-F11-9	BSD0232-09	Soil	04/22/09 13:45	04/22/09 16:20
Area1-E11-7	BSD0232-10	Soil	04/22/09 14:00	04/22/09 16:20

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 16:56
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-01 (Area1-A9-14)		Soil		Sampled: 04/22/09 09:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.31	8.24	mg/kg dry	1x	9D22034	04/22/09 17:21	04/22/09 18:18	MI
Surrogate(s): 4-BFB (FID)			109%		75 - 140 %					
BSD0232-02 (Area1-A8-14)		Soil		Sampled: 04/22/09 09:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.20	7.86	mg/kg dry	1x	9D22034	04/22/09 17:21	04/22/09 18:51	
Surrogate(s): 4-BFB (FID)			102%		75 - 140 %					
BSD0232-03 (Area1-A7-14)		Soil		Sampled: 04/22/09 09:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.89	6.76	mg/kg dry	1x	9D22034	04/22/09 17:21	04/22/09 19:23	
Surrogate(s): 4-BFB (FID)			103%		75 - 140 %					
BSD0232-04 (Area1-A6-14)		Soil		Sampled: 04/22/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.00	7.16	mg/kg dry	1x	9D22034	04/22/09 17:21	04/22/09 19:55	
Surrogate(s): 4-BFB (FID)			104%		75 - 140 %					
BSD0232-05 (Area1-A5-14)		Soil		Sampled: 04/22/09 10:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.01	7.17	mg/kg dry	1x	9D22034	04/22/09 17:21	04/22/09 20:28	
Surrogate(s): 4-BFB (FID)			101%		75 - 140 %					
BSD0232-06 (Area1-A4-14)		Soil		Sampled: 04/22/09 10:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	26.9	2.90	10.4	mg/kg dry	1x	9D22034	04/22/09 17:21	04/22/09 21:00	
Surrogate(s): 4-BFB (FID)			122%		75 - 140 %					
BSD0232-07 (Dup-8)		Soil		Sampled: 04/22/09 11:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	28.1	2.26	8.07	mg/kg dry	1x	9D22034	04/22/09 17:21	04/22/09 23:42	
Surrogate(s): 4-BFB (FID)			124%		75 - 140 %					
BSD0232-09 (Area1-F11-9)		Soil		Sampled: 04/22/09 13:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.73	6.17	mg/kg dry	1x	9D22034	04/22/09 17:21	04/23/09 00:15	
Surrogate(s): 4-BFB (FID)			98.6%		75 - 140 %					

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 16:56
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-10 (Area1-E11-7)		Soil			Sampled: 04/22/09 14:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	11.1	39.5	mg/kg dry	1x	9D22034	04/22/09 17:21	04/23/09 00:47	
<i>Surrogate(s): 4-BFB (FID)</i>			142%		75 - 140 %	"			"	ZX
BSD0232-10RE1 (Area1-E11-7)		Soil			Sampled: 04/22/09 14:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	5.31	19.0	mg/kg dry	1x	9D22034	04/22/09 17:21	04/23/09 09:08	
<i>Surrogate(s): 4-BFB (FID)</i>			348%		75 - 140 %	"			"	ZX

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 16:56
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-01 (Area1-A9-14)		Soil			Sampled: 04/22/09 09:30					
Lube Oil	NWTPH-Dx	ND	----	32.9	mg/kg dry	1x	9D22035	04/22/09 17:20	04/22/09 20:58	
Diesel Range Hydrocarbons	"	ND	----	13.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.9%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSD0232-01RE1 (Area1-A9-14)		Soil			Sampled: 04/22/09 09:30					
Kerosene	NWTPH-Dx	ND	----	13.2	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 11:43	
<i>Surrogate(s): 2-FBP</i>			86.1%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSD0232-02 (Area1-A8-14)		Soil			Sampled: 04/22/09 09:40					
Lube Oil	NWTPH-Dx	69.2	----	31.0	mg/kg dry	1x	9D22035	04/22/09 17:20	04/22/09 21:19	Q1
Diesel Range Hydrocarbons	"	24.8	----	12.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.9%		54 - 148 %	"				"
<i>Octacosane</i>			101%		62 - 142 %	"				"
BSD0232-02RE1 (Area1-A8-14)		Soil			Sampled: 04/22/09 09:40					
Kerosene	NWTPH-Dx	ND	----	12.4	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 12:05	
<i>Surrogate(s): 2-FBP</i>			87.6%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"
BSD0232-03 (Area1-A7-14)		Soil			Sampled: 04/22/09 09:50					
Lube Oil	NWTPH-Dx	ND	----	29.9	mg/kg dry	1x	9D22035	04/22/09 17:20	04/22/09 21:41	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.3%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSD0232-03RE1 (Area1-A7-14)		Soil			Sampled: 04/22/09 09:50					
Kerosene	NWTPH-Dx	ND	----	12.0	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 12:26	
<i>Surrogate(s): 2-FBP</i>			85.6%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 16:56
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-04 (Area1-A6-14)		Soil		Sampled: 04/22/09 10:00						
Lube Oil	NWTPH-Dx	ND	----	30.7	mg/kg dry	1x	9D22035	04/22/09 17:20	04/22/09 22:02	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			88.9%		54 - 148 %	"				"
<i>Octacosane</i>			105%		62 - 142 %	"				"
BSD0232-04RE1 (Area1-A6-14)		Soil		Sampled: 04/22/09 10:00						
Kerosene	NWTPH-Dx	ND	----	12.3	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 12:48	
<i>Surrogate(s): 2-FBP</i>			87.0%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"
BSD0232-05 (Area1-A5-14)		Soil		Sampled: 04/22/09 10:40						
Lube Oil	NWTPH-Dx	ND	----	30.5	mg/kg dry	1x	9D22035	04/22/09 17:20	04/22/09 22:24	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.1%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSD0232-05RE1 (Area1-A5-14)		Soil		Sampled: 04/22/09 10:40						
Kerosene	NWTPH-Dx	ND	----	12.2	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 13:10	
<i>Surrogate(s): 2-FBP</i>			82.1%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0232-06 (Area1-A4-14)		Soil		Sampled: 04/22/09 10:50						
Lube Oil	NWTPH-Dx	ND	----	34.4	mg/kg dry	1x	9D22035	04/22/09 17:20	04/22/09 22:45	
Diesel Range Hydrocarbons	"	ND	----	13.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.0%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"
BSD0232-06RE1 (Area1-A4-14)		Soil		Sampled: 04/22/09 10:50						
Kerosene	NWTPH-Dx	ND	----	13.8	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 13:31	
<i>Surrogate(s): 2-FBP</i>			89.2%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 16:56
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-07 (Dup-8)		Soil		Sampled: 04/22/09 11:00						
Lube Oil	NWTPH-Dx	ND	----	31.7	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 00:32	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
Surrogate(s): 2-FBP			90.8%		54 - 148 %	"				"
Octacosane			109%		62 - 142 %	"				"
BSD0232-07RE1 (Dup-8)		Soil		Sampled: 04/22/09 11:00						
Kerosene	NWTPH-Dx	ND	----	12.7	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 14:37	
Surrogate(s): 2-FBP			91.8%		54 - 148 %	"				"
Octacosane			109%		62 - 142 %	"				"
BSD0232-09 (Area1-F11-9)		Soil		Sampled: 04/22/09 13:45						
Lube Oil	NWTPH-Dx	39.5	----	28.4	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 00:54	Q1
Diesel Range Hydrocarbons	"	27.9	----	11.4	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			94.1%		54 - 148 %	"				"
Octacosane			107%		62 - 142 %	"				"
BSD0232-09RE1 (Area1-F11-9)		Soil		Sampled: 04/22/09 13:45						
Kerosene	NWTPH-Dx	ND	----	11.4	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 15:18	
Surrogate(s): 2-FBP			90.3%		54 - 148 %	"				"
Octacosane			104%		62 - 142 %	"				"
BSD0232-10 (Area1-E11-7)		Soil		Sampled: 04/22/09 14:00						
Lube Oil	NWTPH-Dx	ND	----	72.6	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 01:16	
Diesel Range Hydrocarbons	"	542	----	29.1	"	"	"	"	"	QP
Surrogate(s): 2-FBP			87.3%		54 - 148 %	"				"
Octacosane			105%		62 - 142 %	"				"
BSD0232-10RE1 (Area1-E11-7)		Soil		Sampled: 04/22/09 14:00						
Kerosene	NWTPH-Dx	311	----	29.1	mg/kg dry	1x	9D22035	04/22/09 17:20	04/23/09 15:40	QP
Surrogate(s): 2-FBP			86.5%		54 - 148 %	"				"
Octacosane			105%		62 - 142 %	"				"

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 16:56

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-01	(Area1-A9-14)	Soil		Sampled: 04/22/09 09:30						
Lead	EPA 6020	4.69	----	0.638	mg/kg dry	1x	9D22037	04/22/09 21:28	04/23/09 10:25	R3
BSD0232-02	(Area1-A8-14)	Soil		Sampled: 04/22/09 09:40						
Lead	EPA 6020	42.9	----	0.641	mg/kg dry	1x	9D22037	04/22/09 21:28	04/23/09 10:31	
BSD0232-03	(Area1-A7-14)	Soil		Sampled: 04/22/09 09:50						
Lead	EPA 6020	2.58	----	0.623	mg/kg dry	1x	9D22037	04/22/09 21:28	04/23/09 10:56	
BSD0232-04	(Area1-A6-14)	Soil		Sampled: 04/22/09 10:00						
Lead	EPA 6020	7.95	----	0.619	mg/kg dry	1x	9D22037	04/22/09 21:28	04/23/09 11:03	
BSD0232-05	(Area1-A5-14)	Soil		Sampled: 04/22/09 10:40						
Lead	EPA 6020	20.4	----	0.592	mg/kg dry	1x	9D22037	04/22/09 21:28	04/23/09 11:09	
BSD0232-06	(Area1-A4-14)	Soil		Sampled: 04/22/09 10:50						
Lead	EPA 6020	49.3	----	0.699	mg/kg dry	1x	9D22037	04/22/09 21:28	04/23/09 11:15	
BSD0232-07	(Dup-8)	Soil		Sampled: 04/22/09 11:00						
Lead	EPA 6020	44.2	----	0.645	mg/kg dry	1x	9D22037	04/22/09 21:28	04/23/09 11:22	
BSD0232-09	(Area1-F11-9)	Soil		Sampled: 04/22/09 13:45						
Lead	EPA 6020	19.3	----	0.548	mg/kg dry	1x	9D22037	04/22/09 21:28	04/23/09 11:28	
BSD0232-10	(Area1-E11-7)	Soil		Sampled: 04/22/09 14:00						
Lead	EPA 6020	9.04	----	1.47	mg/kg dry	1x	9D22037	04/22/09 21:28	04/23/09 11:34	

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1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 16:56

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-01 (Area1-A9-14)		Soil					Sampled: 04/22/09 09:30			P13
Benzene	EPA 8260B	ND	----	0.000982	mg/kg dry	1x	9D22020	04/22/09 16:00	04/22/09 18:20	
Ethylbenzene	"	ND	----	0.00262	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000655	"	"	"	"	"	
Naphthalene	"	ND	----	0.00655	"	"	"	"	"	
Toluene	"	ND	----	0.000982	"	"	"	"	"	
o-Xylene	"	ND	----	0.00327	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00327	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00655	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 115% 70 - 140 % "
 Toluene-d8 97.1% 70 - 130 % "
 4-BFB 105% 70 - 130 % "

BSD0232-02RE1 (Area1-A8-14)		Soil					Sampled: 04/22/09 09:40			P13
Benzene	EPA 8260B	ND	----	0.000846	mg/kg dry	1x	9D22020	04/22/09 16:00	04/22/09 22:36	
Ethylbenzene	"	ND	----	0.00226	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000564	"	"	"	"	"	
Naphthalene	"	ND	----	0.00564	"	"	"	"	"	
Toluene	"	ND	----	0.000846	"	"	"	"	"	
o-Xylene	"	ND	----	0.00282	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00282	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00564	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 121% 70 - 140 % "
 Toluene-d8 99.0% 70 - 130 % "
 4-BFB 108% 70 - 130 % "

BSD0232-03RE1 (Area1-A7-14)		Soil					Sampled: 04/22/09 09:50			
Benzene	EPA 8260B	ND	----	0.000928	mg/kg dry	1x	9D22020	04/22/09 16:00	04/22/09 23:01	
Ethylbenzene	"	ND	----	0.00247	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000619	"	"	"	"	"	
Naphthalene	"	ND	----	0.00619	"	"	"	"	"	
Toluene	"	ND	----	0.000928	"	"	"	"	"	
o-Xylene	"	ND	----	0.00309	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00309	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00619	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 127% 70 - 140 % "
 Toluene-d8 95.4% 70 - 130 % "
 4-BFB 100% 70 - 130 % "

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 16:56

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-04RE1 (Area1-A6-14)		Soil		Sampled: 04/22/09 10:00						P13
Benzene	EPA 8260B	ND	----	0.000915	mg/kg dry	1x	9D22020	04/22/09 16:00	04/22/09 23:26	
Ethylbenzene	"	ND	----	0.00244	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000610	"	"	"	"	"	
Naphthalene	"	ND	----	0.00610	"	"	"	"	"	
Toluene	"	ND	----	0.000915	"	"	"	"	"	
o-Xylene	"	ND	----	0.00305	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00305	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00610	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 126% 70 - 140 % "
 Toluene-d8 97.4% 70 - 130 % "
 4-BFB 105% 70 - 130 % "

BSD0232-05 (Area1-A5-14)		Soil		Sampled: 04/22/09 10:40						P13
Benzene	EPA 8260B	ND	----	0.000901	mg/kg dry	1x	9D22020	04/22/09 16:00	04/22/09 20:03	
Ethylbenzene	"	ND	----	0.00240	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000601	"	"	"	"	"	
Naphthalene	"	ND	----	0.00601	"	"	"	"	"	
Toluene	"	ND	----	0.000901	"	"	"	"	"	
o-Xylene	"	ND	----	0.00300	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00300	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00601	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 114% 70 - 140 % "
 Toluene-d8 99.4% 70 - 130 % "
 4-BFB 107% 70 - 130 % "

BSD0232-06 (Area1-A4-14)		Soil		Sampled: 04/22/09 10:50						
Benzene	EPA 8260B	0.00342	----	0.00127	mg/kg dry	1x	9D22020	04/22/09 16:00	04/22/09 20:28	
Ethylbenzene	"	ND	----	0.00338	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000844	"	"	"	"	"	
Naphthalene	"	ND	----	0.00844	"	"	"	"	"	
Toluene	"	0.00253	----	0.00127	"	"	"	"	"	
o-Xylene	"	ND	----	0.00422	"	"	"	"	"	
m,p-Xylene	"	0.0127	----	0.00422	"	"	"	"	"	
Total Xylenes	"	0.0159	----	0.00844	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 119% 70 - 140 % "
 Toluene-d8 108% 70 - 130 % "
 4-BFB 117% 70 - 130 % "

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 16:56

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-07RE1 (Dup-8)		Soil		Sampled: 04/22/09 11:00						
Benzene	EPA 8260B	0.00325	----	0.00106	mg/kg dry	1x	9D22020	04/22/09 16:00	04/23/09 00:43	
Ethylbenzene	"	ND	----	0.00282	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000705	"	"	"	"	"	
Naphthalene	"	ND	----	0.00705	"	"	"	"	"	
Toluene	"	0.00167	----	0.00106	"	"	"	"	"	
o-Xylene	"	ND	----	0.00352	"	"	"	"	"	
m,p-Xylene	"	0.00760	----	0.00352	"	"	"	"	"	
Total Xylenes	"	0.00967	----	0.00705	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>112%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>106%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>115%</i>	<i>70 - 130 %</i>						
BSD0232-09RE1 (Area1-F11-9)		Soil		Sampled: 04/22/09 13:45						P13
Benzene	EPA 8260B	ND	----	0.000737	mg/kg dry	1x	9D22020	04/22/09 16:00	04/23/09 01:09	
Ethylbenzene	"	ND	----	0.00196	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000491	"	"	"	"	"	
Naphthalene	"	ND	----	0.00491	"	"	"	"	"	
Toluene	"	ND	----	0.000737	"	"	"	"	"	
o-Xylene	"	ND	----	0.00246	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00246	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00491	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>122%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>96.3%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>104%</i>	<i>70 - 130 %</i>						
BSD0232-10RE1 (Area1-E11-7)		Soil		Sampled: 04/22/09 14:00						
Benzene	EPA 8260B	ND	----	0.00325	mg/kg dry	1x	9D22020	04/22/09 16:00	04/23/09 01:34	
Ethylbenzene	"	ND	----	0.00866	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00217	"	"	"	"	"	
Naphthalene	"	ND	----	0.0217	"	"	"	"	"	
Toluene	"	ND	----	0.00325	"	"	"	"	"	
o-Xylene	"	ND	----	0.0108	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.0108	"	"	"	"	"	
Total Xylenes	"	ND	----	0.0217	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>103%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>124%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>134%</i>	<i>70 - 130 %</i>						

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 16:56

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0232-01 (Area1-A9-14)		Soil								Sampled: 04/22/09 09:30
Dry Weight	BSOPSPL003R0 8	74.7	----	1.00	%	1x	9D22036	04/22/09 17:21	04/23/09 00:00	
BSD0232-02 (Area1-A8-14)		Soil								Sampled: 04/22/09 09:40
Dry Weight	BSOPSPL003R0 8	79.6	----	1.00	%	1x	9D22036	04/22/09 17:21	04/23/09 00:00	
BSD0232-03 (Area1-A7-14)		Soil								Sampled: 04/22/09 09:50
Dry Weight	BSOPSPL003R0 8	82.7	----	1.00	%	1x	9D22036	04/22/09 17:21	04/23/09 00:00	
BSD0232-04 (Area1-A6-14)		Soil								Sampled: 04/22/09 10:00
Dry Weight	BSOPSPL003R0 8	80.0	----	1.00	%	1x	9D22036	04/22/09 17:21	04/23/09 00:00	
BSD0232-05 (Area1-A5-14)		Soil								Sampled: 04/22/09 10:40
Dry Weight	BSOPSPL003R0 8	81.2	----	1.00	%	1x	9D22036	04/22/09 17:21	04/23/09 00:00	
BSD0232-06 (Area1-A4-14)		Soil								Sampled: 04/22/09 10:50
Dry Weight	BSOPSPL003R0 8	72.2	----	1.00	%	1x	9D22036	04/22/09 17:21	04/23/09 00:00	
BSD0232-07 (Dup-8)		Soil								Sampled: 04/22/09 11:00
Dry Weight	BSOPSPL003R0 8	77.6	----	1.00	%	1x	9D22036	04/22/09 17:21	04/23/09 00:00	
BSD0232-09 (Area1-F11-9)		Soil								Sampled: 04/22/09 13:45
Dry Weight	BSOPSPL003R0 8	86.9	----	1.00	%	1x	9D22036	04/22/09 17:21	04/23/09 00:00	
BSD0232-10 (Area1-E11-7)		Soil								Sampled: 04/22/09 14:00
Dry Weight	BSOPSPL003R0 8	34.3	----	1.00	%	1x	9D22036	04/22/09 17:21	04/23/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 16:56
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22034 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D22034-BLK1)										Extracted: 04/22/09 14:21				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/22/09 16:00	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.5%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/22/09 16:00</i>
LCS (9D22034-BS1)										Extracted: 04/22/09 14:21				
Gasoline Range Hydrocarbons	NWTPH-Gx	53.0	1.40	5.00	mg/kg wet	1x	--	50.0	106%	(80-120)	--	--	04/22/09 16:32	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.6%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/22/09 16:32</i>
Duplicate (9D22034-DUP1)										QC Source: BSD0232-01		Extracted: 04/22/09 14:21		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.31	8.24	mg/kg dry	1x	ND	--	--	--	NR (40)		04/22/09 21:33	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 107%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/22/09 21:33</i>
Matrix Spike (9D22034-MS1)										QC Source: BSD0232-01		Extracted: 04/22/09 14:21		
Gasoline Range Hydrocarbons	NWTPH-Gx	93.4	2.31	8.24	mg/kg dry	1x	ND	65.5	143%	(75-130)	--	--	04/22/09 22:05	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 122%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/22/09 22:05</i>

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 16:56
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22035 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D22035-BLK1)

Extracted: 04/22/09 17:20

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/22/09 19:33	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/22/09 19:33</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Blank (9D22035-BLK2)

Extracted: 04/22/09 17:20

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/23/09 10:17	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/23/09 10:17</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D22035-BS1)

Extracted: 04/22/09 17:20

Lube Oil	NWTPH-Dx	66.1	---	25.0	mg/kg wet	1x	--	66.7	99.1%	(63-125)	--	--	04/22/09 19:54	
Diesel Range Hydrocarbons	"	80.5	---	10.0	"	"	--	"	121%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/22/09 19:54</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D22035-BS2)

Extracted: 04/22/09 17:20

Lube Oil	NWTPH-Dx	70.1	---	25.0	mg/kg wet	1x	--	66.7	105%	(63-125)	--	--	04/23/09 10:39	
Diesel Range Hydrocarbons	"	82.3	---	10.0	"	"	--	"	123%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>97.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/23/09 10:39</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D22035-DUP1)

QC Source: BSD0232-01

Extracted: 04/22/09 17:20

Lube Oil	NWTPH-Dx	ND	---	33.0	mg/kg dry	1x	ND	--	--	--	8.18% (50)		04/22/09 20:15	
Diesel Range Hydrocarbons	"	ND	---	13.2	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/22/09 20:15</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D22035-DUP2)

QC Source: BSD0232-01

Extracted: 04/22/09 17:20

Lube Oil	NWTPH-Dx	ND	---	33.0	mg/kg dry	1x	ND	--	--	--	0.0487% (50)		04/23/09 11:00	
Kerosene	"	ND	---	13.2	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	13.2	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/23/09 11:00</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 16:56
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22035 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9D22035-MS1)			QC Source: BSD0232-01				Extracted: 04/22/09 17:20							
Lube Oil	NWTPH-Dx	80.1	---	33.0	mg/kg dry	1x	4.55	88.1	85.7%	(26-150)	--	--	04/22/09 20:37	
Diesel Range Hydrocarbons	"	86.3	---	13.2	"	"	ND	"	97.9%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 86.0%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/22/09 20:37</i>		
<i>Octacosane</i>		<i>98.4%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		
Matrix Spike (9D22035-MS2)			QC Source: BSD0232-01				Extracted: 04/22/09 17:20							
Lube Oil	NWTPH-Dx	86.6	---	33.0	mg/kg dry	1x	4.55	88.1	93.1%	(26-150)	--	--	04/23/09 11:22	
Diesel Range Hydrocarbons	"	91.6	---	13.2	"	"	ND	"	104%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 88.2%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>04/23/09 11:22</i>		
<i>Octacosane</i>		<i>100%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/23/09 16:56
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22037	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D22037-BLK1)								Extracted: 04/22/09 21:28						
Lead	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	04/23/09 09:54	
LCS (9D22037-BS1)								Extracted: 04/22/09 21:28						
Lead	EPA 6020	39.3	---	0.495	mg/kg wet	1x	--	39.6	99.2%	(80-120)	--	--	04/23/09 10:00	
Duplicate (9D22037-DUP1)				QC Source: BSD0232-01				Extracted: 04/22/09 21:28						
Lead	EPA 6020	3.72	---	0.670	mg/kg dry	1x	4.69	--	--	--	23.2% (20)	--	04/23/09 10:12	R3
Matrix Spike (9D22037-MS1)				QC Source: BSD0232-01				Extracted: 04/22/09 21:28						
Lead	EPA 6020	56.9	---	0.690	mg/kg dry	1x	4.69	55.2	94.5%	(75-125)	--	--	04/23/09 10:06	
Post Spike (9D22037-PS1)				QC Source: BSD0232-01				Extracted: 04/22/09 21:28						
Lead	EPA 6020	0.103	---		ug/ml	1x	0.00736	0.100	95.0%	(80-120)	--	--	04/23/09 10:19	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22020 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D22020-BLK1)													Extracted: 04/22/09 13:00	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/22/09 17:55	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>123%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/22/09 17:55</i>	
<i>Toluene-d8</i>		<i>93.8%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>104%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9D22020-BS1)													Extracted: 04/22/09 13:00	
Benzene	EPA 8260B	0.0435	---	0.00150	mg/kg wet	1x	--	0.0500	87.1%	(70-125)	--	--	04/22/09 17:04	
Ethylbenzene	"	0.0436	---	0.00400	"	"	--	"	87.1%	"	--	--	"	
Methyl tert-butyl ether	"	0.0455	---	0.00100	"	"	--	"	91.1%	(70-130)	--	--	"	
Naphthalene	"	0.0432	---	0.0100	"	"	--	"	86.5%	"	--	--	"	
Toluene	"	0.0416	---	0.00150	"	"	--	"	83.3%	(70-125)	--	--	"	
Total Xylenes	"	0.133	---	0.0100	"	"	--	0.150	88.8%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.5%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/22/09 17:04</i>	
<i>Toluene-d8</i>		<i>98.1%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>100%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D22020-BSD1)													Extracted: 04/22/09 13:00	
Benzene	EPA 8260B	0.0461	---	0.00150	mg/kg wet	1x	--	0.0500	92.2%	(70-125)	5.78% (30)		04/22/09 17:29	
Ethylbenzene	"	0.0459	---	0.00400	"	"	--	"	91.8%	"	5.21%	"	"	
Methyl tert-butyl ether	"	0.0512	---	0.00100	"	"	--	"	102%	(70-130)	11.7%	"	"	
Naphthalene	"	0.0469	---	0.0100	"	"	--	"	93.9%	"	8.18%	"	"	
Toluene	"	0.0432	---	0.00150	"	"	--	"	86.3%	(70-125)	3.61%	"	"	
Total Xylenes	"	0.140	---	0.0100	"	"	--	0.150	93.2%	(70-130)	4.76%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/22/09 17:29</i>	
<i>Toluene-d8</i>		<i>94.5%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>98.1%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/23/09 16:56
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D22036 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D22036-BLK1)										Extracted: 04/22/09 17:21				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/23/09 00:00	

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 16:56

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/23/09 16:56

Notes and Definitions

Report Specific Notes:

- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z1 - Surrogate recovery was above acceptance limits.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302
 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **01100222**

CLIENT: CONDO PHILIPS		INVOICE TO: CP		TURNAROUND REQUEST			
REPORT TO: WMEP Staff		ADDRESS:		in Business Days *			
PHONE:		P.O. NUMBER:		Organic & Inorganic Analyses			
PROJECT NAME: WMEP Phase II		PRESERVATIVE:		Petroleum Hydrocarbon Analyses			
PROJECT NUMBER:		REQUESTED ANALYSES:		STD.			
SAMPLED BY: Matthew McKibbin		DATE/TIME		OTHER Specify: Z4-h			
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		* Turnaround Requests less than standard may incur Rush Charges.			
				MATRIX (W, S, O)			
				# OF CONT.			
				LOCATION/ COMMENTS			
				TA WO ID			
1	A9-14	4-22-09 / 0930	X	S	4	Silt w/ f sand	01
2	" - A8-14	" / 0940	X		4	RED = Deep Sand + Silt w/ wood	0A
3	" - A7-14	" / 0950	X		4	Oppen Sand + Silt	0B
4	" - A6-14	" / 1000	X		4	Sandy Silt	0C
5	" A5-14	" / 1040	X		4	0.4 ppm	0D
6	" A4-14	" / 1050	X		4	Sand w/ Silt + gravel	0E
7	WMEP DUPS	" / 1100	X		4	1.2 ppm	0F
8	" A4-9	" / 1300	X		4	Sand/Silt + gravel	0G
9	" F11-9	" / 1345	X		4	9.5 ppm	0H
10	" E11-7	" / 1400	X		4	Sandy Silt + wood	0I
					5	Oppen	0J
					4	Course Sand	0K
					5	1.4 ppm	0L
					5	Sand/Silt	0M

RECEIVED BY:	DATE: 4-22-09	RECEIVED BY:	DATE: 4/22/09
PRINT NAME: Francisco Lung, Jr.	TIME: 1510	PRINT NAME: Francisco Lung, Jr.	TIME: 1510
RECEIVED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:

RELEASED BY: Matthew McKibbin	FIRM: WES	DATE: 4-22-09	FIRM: TA-SEA
PRINT NAME: MATTHEW MCKIBBIN	FIRM: WES	DATE: 4-22-09	FIRM: TA-SEA
RELEASED BY:	FIRM:	DATE:	FIRM:
PRINT NAME:	FIRM:	DATE:	FIRM:

ADDITIONAL REMARKS: **TCLP all samples w/ total lead 2500 mg/kg**

TEMP: 1.5°C

LAB: @ lab 1620 w/o

PAGE 1 OF 2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA00232**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: PAGE 2 of 2		PRESERVATIVE		in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses STD.	
ADDRESS:		P.O. NUMBER:		OTHER Specify 24H * Turnaround Requests less than standard may incur Rush Charges.	
PHONE:		REQUESTED ANALYSES		# OF CONT. LOCATION/ COMMENTS TA W O I D	
PROJECT NAME: WMEP PH II		SAMPLING DATE/TIME		10 7 5 4 3 2 1 <1 5 4 3 2 1 <1	
PROJECT NUMBER:		SAMPLING DATE/TIME		MATRIX (W, S, O) LOCATION/ COMMENTS TA W O I D	
SAMPLED BY: MATTIEA MCKEIBEN		SAMPLING DATE/TIME		10 7 5 4 3 2 1 <1 5 4 3 2 1 <1	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DATE	TIME	DATE	TIME
1 AREA1-A5-9	4-22-09/1450	4-22-09	1510	4-22-09	1510
2 101-A6-9	"/1500	"	/1500	"	/1500
3					
4					
5					
6					
7					
8					
9					
10					
RELEASED BY: Mattiea McKeben	DATE: 4-22-09	RECEIVED BY: Francisco Long, Jr.	DATE: 4/22/09	FIRM: TH-SEA	DATE: 4/22/09
PRINT NAME: MATTIEA MCKEIBEN	TIME: 1510	PRINT NAME: Francisco Long, Jr.	TIME: 1510	FIRM: TH-SEA	TIME: 1510
RELEASED BY:	DATE:	RECEIVED BY:	DATE:	FIRM:	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:	FIRM:	TIME:
ADDITIONAL REMARKS:		FIRM: @ Lab 1620 w/o		TEMP: 1.5°C	
		FIRM: w/o		PAGE 2 OF 2	

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances? CB 4/22

Page Time & Initials: _____

Circle or

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/22/09

Date: 4/22

Date: 4/22

4/22/09 Work Order No. BAD0232

Time: 1620

Time: 11:25

Time: 11:30

1650 Client: _____

Initials: FL

Initials: CB

Initials: CB

FL Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

____ Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

None/Other Bubble wrap

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 1.5 or NA comments _____

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved?

Y or N or

Provided by TA? or N _____

Client QAPP Preserved?

Y or N or

Correct Type? or N _____

Adequate Volume?
(for tests requested)

or N _____

#Containers match COC? or N _____

Water VOAs: Headspace?

Y or N or

IDs/time/date match COC? or CB 4/22

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 24, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/23/09 16:15.
The following list is a summary of the Work Orders contained in this report, generated on 04/24/09
15:28.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0249	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/24/09 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area-1-D12-6	BSD0249-01	Soil	04/23/09 12:15	04/23/09 16:15
Area-1-B6-14	BSD0249-02	Soil	04/23/09 12:40	04/23/09 16:15
Area-1-C6-14	BSD0249-03	Soil	04/23/09 12:50	04/23/09 16:15
Area-1-D6-14	BSD0249-04	Soil	04/23/09 13:00	04/23/09 16:15
DUP-9	BSD0249-05	Soil	04/23/09 15:30	04/23/09 16:15
Area1-F13-6	BSD0249-06	Soil	04/23/09 15:20	04/23/09 16:15

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/24/09 15:28
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0249-01 (Area-1-D12-6)		Soil		Sampled: 04/23/09 12:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	3.63	13.0	mg/kg dry	1x	9D23014	04/23/09 17:00	04/23/09 21:39	
Surrogate(s): 4-BFB (FID)			127%		75 - 140 %	"				"
BSD0249-02 (Area-1-B6-14)		Soil		Sampled: 04/23/09 12:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.07	7.39	mg/kg dry	1x	9D23014	04/23/09 17:00	04/23/09 22:12	
Surrogate(s): 4-BFB (FID)			115%		75 - 140 %	"				"
BSD0249-03 (Area-1-C6-14)		Soil		Sampled: 04/23/09 12:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.40	2.23	7.96	mg/kg dry	1x	9D23014	04/23/09 17:00	04/23/09 22:45	J
Surrogate(s): 4-BFB (FID)			121%		75 - 140 %	"				"
BSD0249-04 (Area-1-D6-14)		Soil		Sampled: 04/23/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.35	8.40	mg/kg dry	1x	9D23014	04/23/09 17:00	04/23/09 23:17	
Surrogate(s): 4-BFB (FID)			115%		75 - 140 %	"				"
BSD0249-05 (DUP-9)		Soil		Sampled: 04/23/09 15:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.94	6.92	mg/kg dry	1x	9D23014	04/23/09 17:00	04/23/09 23:50	
Surrogate(s): 4-BFB (FID)			112%		75 - 140 %	"				"
BSD0249-06 (Area1-F13-6)		Soil		Sampled: 04/23/09 15:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.89	6.75	mg/kg dry	1x	9D23014	04/23/09 17:00	04/24/09 00:23	
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/24/09 15:28
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0249-01 (Area-1-D12-6)		Soil		Sampled: 04/23/09 12:15						
Lube Oil	NWTPH-Dx	ND	----	44.6	mg/kg dry	1x	9D23040	04/23/09 17:14	04/23/09 21:22	
Kerosene	"	ND	----	17.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	19.9	----	17.8	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			83.2%		54 - 148 %	"			"	
<i>Octacosane</i>			91.5%		62 - 142 %	"			"	
BSD0249-02 (Area-1-B6-14)		Soil		Sampled: 04/23/09 12:40						
Lube Oil	NWTPH-Dx	ND	----	32.7	mg/kg dry	1x	9D23040	04/23/09 17:14	04/23/09 21:44	
Kerosene	"	ND	----	13.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.4%		54 - 148 %	"			"	
<i>Octacosane</i>			97.0%		62 - 142 %	"			"	
BSD0249-03 (Area-1-C6-14)		Soil		Sampled: 04/23/09 12:50						
Lube Oil	NWTPH-Dx	ND	----	34.8	mg/kg dry	1x	9D23040	04/23/09 17:14	04/23/09 22:07	
Kerosene	"	ND	----	13.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			79.4%		54 - 148 %	"			"	
<i>Octacosane</i>			91.5%		62 - 142 %	"			"	
BSD0249-04 (Area-1-D6-14)		Soil		Sampled: 04/23/09 13:00						
Lube Oil	NWTPH-Dx	ND	----	34.4	mg/kg dry	1x	9D23040	04/23/09 17:14	04/23/09 22:30	
Kerosene	"	ND	----	13.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.2%		54 - 148 %	"			"	
<i>Octacosane</i>			95.6%		62 - 142 %	"			"	
BSD0249-05 (DUP-9)		Soil		Sampled: 04/23/09 15:30						
Lube Oil	NWTPH-Dx	ND	----	31.8	mg/kg dry	1x	9D23040	04/23/09 17:14	04/23/09 22:52	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.0%		54 - 148 %	"			"	
<i>Octacosane</i>			97.0%		62 - 142 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/24/09 15:28

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0249-06 (Area1-F13-6)										
		Soil					Sampled: 04/23/09 15:20			
Lube Oil	NWTPH-Dx	ND	----	31.3	mg/kg dry	1x	9D23040	04/23/09 17:14	04/23/09 23:15	
Kerosene	"	ND	----	12.5	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	12.5	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				84.5%		54 - 148 %	"			"
<i>Octacosane</i>				93.4%		62 - 142 %	"			"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/24/09 15:28
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0249-01 (Area-1-D12-6)		Soil			Sampled: 04/23/09 12:15					
Lead	EPA 6020	7.40	----	0.891	mg/kg dry	1x	9D23047	04/23/09 19:37	04/24/09 11:39	
BSD0249-02 (Area-1-B6-14)		Soil			Sampled: 04/23/09 12:40					
Lead	EPA 6020	9.30	----	0.634	mg/kg dry	1x	9D23047	04/23/09 19:37	04/24/09 12:05	
BSD0249-03 (Area-1-C6-14)		Soil			Sampled: 04/23/09 12:50					
Lead	EPA 6020	23.2	----	0.679	mg/kg dry	1x	9D23047	04/23/09 19:37	04/24/09 12:11	
BSD0249-04 (Area-1-D6-14)		Soil			Sampled: 04/23/09 13:00					
Lead	EPA 6020	14.5	----	0.689	mg/kg dry	1x	9D23047	04/23/09 19:37	04/24/09 12:17	
BSD0249-05 (DUP-9)		Soil			Sampled: 04/23/09 15:30					
Lead	EPA 6020	6.52	----	0.653	mg/kg dry	1x	9D23047	04/23/09 19:37	04/24/09 12:24	
BSD0249-06 (Area1-F13-6)		Soil			Sampled: 04/23/09 15:20					
Lead	EPA 6020	1.69	----	0.623	mg/kg dry	1x	9D23047	04/23/09 19:37	04/24/09 12:30	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/24/09 15:28
--	---	-----------------------------------

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0249-01 (Area-1-D12-6)		Soil			Sampled: 04/23/09 12:15					P13
Benzene	EPA 8260B	ND	----	0.00133	mg/kg dry	1x	9D23027	04/23/09 17:35	04/23/09 19:10	
Ethylbenzene	"	ND	----	0.00355	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.000888	"	"	"	"	"	
Naphthalene	"	ND	----	0.00888	"	"	"	"	"	I
Toluene	"	ND	----	0.00133	"	"	"	"	"	I
o-Xylene	"	ND	----	0.00444	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.00444	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.00888	"	"	"	"	"	I

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>127%</i>	<i>70 - 140 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>I</i>
	<i>Toluene-d8</i>	<i>104%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>I</i>
	<i>4-BFB</i>	<i>118%</i>	<i>70 - 130 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>I</i>

BSD0249-02 (Area-1-B6-14)		Soil			Sampled: 04/23/09 12:40					
Benzene	EPA 8260B	ND	----	0.00100	mg/kg dry	1x	9D23027	04/23/09 17:35	04/23/09 19:36	
Ethylbenzene	"	ND	----	0.00268	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000670	"	"	"	"	"	
Naphthalene	"	ND	----	0.00670	"	"	"	"	"	
Toluene	"	ND	----	0.00100	"	"	"	"	"	
o-Xylene	"	ND	----	0.00335	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00335	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00670	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>119%</i>	<i>70 - 140 %</i>	<i>"</i>						
	<i>Toluene-d8</i>	<i>97.8%</i>	<i>70 - 130 %</i>	<i>"</i>						
	<i>4-BFB</i>	<i>105%</i>	<i>70 - 130 %</i>	<i>"</i>						

BSD0249-03 (Area-1-C6-14)		Soil			Sampled: 04/23/09 12:50					P13
Benzene	EPA 8260B	ND	----	0.000799	mg/kg dry	1x	9D23027	04/23/09 17:35	04/23/09 20:01	
Ethylbenzene	"	ND	----	0.00213	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000532	"	"	"	"	"	
Naphthalene	"	ND	----	0.00532	"	"	"	"	"	
Toluene	"	ND	----	0.000799	"	"	"	"	"	
o-Xylene	"	ND	----	0.00266	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00266	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00532	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>121%</i>	<i>70 - 140 %</i>	<i>"</i>						
	<i>Toluene-d8</i>	<i>95.1%</i>	<i>70 - 130 %</i>	<i>"</i>						
	<i>4-BFB</i>	<i>100%</i>	<i>70 - 130 %</i>	<i>"</i>						

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/24/09 15:28

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSD0249-04 (Area-1-D6-14)		Soil		Sampled: 04/23/09 13:00						
Benzene	EPA 8260B	ND	----	0.00120	mg/kg dry	1x	9D23027	04/23/09 17:35	04/23/09 20:27	
Ethylbenzene	"	ND	----	0.00319	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000797	"	"	"	"	"	
Naphthalene	"	ND	----	0.00797	"	"	"	"	"	
Toluene	"	ND	----	0.00120	"	"	"	"	"	
o-Xylene	"	ND	----	0.00398	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00398	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00797	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				113%		70 - 140 %	"			"
<i>Toluene-d8</i>				98.3%		70 - 130 %	"			"
<i>4-BFB</i>				105%		70 - 130 %	"			"

BSD0249-05 (DUP-9)		Soil		Sampled: 04/23/09 15:30							P13
Benzene	EPA 8260B	ND	----	0.000510	mg/kg dry	1x	9D23027	04/23/09 17:35	04/23/09 20:52		
Ethylbenzene	"	ND	----	0.00136	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000340	"	"	"	"	"		
Naphthalene	"	ND	----	0.00340	"	"	"	"	"		
Toluene	"	ND	----	0.000510	"	"	"	"	"		
o-Xylene	"	ND	----	0.00170	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00170	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00340	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				126%		70 - 140 %	"			"	
<i>Toluene-d8</i>				95.7%		70 - 130 %	"			"	
<i>4-BFB</i>				103%		70 - 130 %	"			"	

BSD0249-06 (Area1-F13-6)		Soil		Sampled: 04/23/09 15:20						
Benzene	EPA 8260B	ND	----	0.00105	mg/kg dry	1x	9D23027	04/23/09 17:35	04/23/09 21:18	I
Ethylbenzene	"	ND	----	0.00279	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.000697	"	"	"	"	"	I
Naphthalene	"	ND	----	0.00697	"	"	"	"	"	I
Toluene	"	ND	----	0.00105	"	"	"	"	"	I
o-Xylene	"	ND	----	0.00348	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.00348	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.00697	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>				118%		70 - 140 %	"			I
<i>Toluene-d8</i>				96.1%		70 - 130 %	"			I
<i>4-BFB</i>				103%		70 - 130 %	"			"

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/24/09 15:28

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0249-01 (Area-1-D12-6)		Soil								Sampled: 04/23/09 12:15
Dry Weight	BSOPSP003R0 8	55.6	----	1.00	%	1x	9D23041	04/23/09 17:17	04/24/09 00:00	
BSD0249-02 (Area-1-B6-14)		Soil								Sampled: 04/23/09 12:40
Dry Weight	BSOPSP003R0 8	75.8	----	1.00	%	1x	9D23041	04/23/09 17:17	04/24/09 00:00	
BSD0249-03 (Area-1-C6-14)		Soil								Sampled: 04/23/09 12:50
Dry Weight	BSOPSP003R0 8	70.8	----	1.00	%	1x	9D23041	04/23/09 17:17	04/24/09 00:00	
BSD0249-04 (Area-1-D6-14)		Soil								Sampled: 04/23/09 13:00
Dry Weight	BSOPSP003R0 8	72.5	----	1.00	%	1x	9D23041	04/23/09 17:17	04/24/09 00:00	
BSD0249-05 (DUP-9)		Soil								Sampled: 04/23/09 15:30
Dry Weight	BSOPSP003R0 8	78.2	----	1.00	%	1x	9D23041	04/23/09 17:17	04/24/09 00:00	
BSD0249-06 (Area1-F13-6)		Soil								Sampled: 04/23/09 15:20
Dry Weight	BSOPSP003R0 8	79.5	----	1.00	%	1x	9D23041	04/23/09 17:17	04/24/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/24/09 15:28
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23014 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D23014-BLK1)								Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/23/09 13:22	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 79.4%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/23/09 13:22</i>
LCS (9D23014-BS1)								Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	49.3	1.40	5.00	mg/kg wet	1x	--	50.0	98.5%	(80-120)	--	--	04/23/09 13:55	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/23/09 13:55</i>
LCS Dup (9D23014-BSD1)								Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	48.9	1.40	5.00	mg/kg wet	1x	--	50.0	97.8%	(80-120)	0.703% (20)		04/23/09 14:27	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.9%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/23/09 14:27</i>
Duplicate (9D23014-DUP1)				QC Source: BSD0250-01				Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.49	5.32	mg/kg dry	1x	ND	--	--	--	NR (40)		04/23/09 18:56	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.5%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/23/09 18:56</i>
Matrix Spike (9D23014-MS1)				QC Source: BSD0250-01				Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	55.0	1.49	5.32	mg/kg dry	1x	ND	49.7	111%	(75-130)	--	--	04/23/09 19:28	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/23/09 19:28</i>

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23040 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D23040-BLK1)

Extracted: 04/23/09 17:14

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/23/09 19:52	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>81.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/23/09 19:52</i>	
<i>Octacosane</i>			<i>89.2%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D23040-BS1)

Extracted: 04/23/09 17:14

Lube Oil	NWTPH-Dx	74.8	---	25.0	mg/kg wet	1x	--	66.7	112%	(63-125)	--	--	04/23/09 20:15	
Diesel Range Hydrocarbons	"	75.3	---	10.0	"	"	--	"	113%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>92.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/23/09 20:15</i>	
<i>Octacosane</i>			<i>96.4%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D23040-DUP1)

QC Source: BSD0249-01

Extracted: 04/23/09 17:14

Lube Oil	NWTPH-Dx	ND	---	44.3	mg/kg dry	1x	ND	--	--	--	41.2%	(50)	04/23/09 20:37	
Kerosene	"	ND	---	17.7	"	"	ND	--	--	--	39.5%	"	"	
Diesel Range Hydrocarbons	"	18.3	---	17.7	"	"	19.9	--	--	--	8.50%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>82.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/23/09 20:37</i>	
<i>Octacosane</i>			<i>91.1%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D23040-MS1)

QC Source: BSD0249-01

Extracted: 04/23/09 17:14

Lube Oil	NWTPH-Dx	177	---	44.9	mg/kg dry	1x	43.2	120	112%	(26-150)	--	--	04/23/09 21:00	
Diesel Range Hydrocarbons	"	146	---	17.9	"	"	19.9	"	105%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/23/09 21:00</i>	
<i>Octacosane</i>			<i>94.6%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/24/09 15:28
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23047	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D23047-BLK1)								Extracted: 04/23/09 19:37						
Lead	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	04/24/09 11:02	
LCS (9D23047-BS1)								Extracted: 04/23/09 19:37						
Lead	EPA 6020	38.6	---	0.500	mg/kg wet	1x	--	40.0	96.6%	(80-120)	--	--	04/24/09 11:08	
Duplicate (9D23047-DUP1)				QC Source: BSD0250-01				Extracted: 04/23/09 19:37						
Lead	EPA 6020	1.95	---	0.546	mg/kg dry	1x	1.91	--	--	--	1.78% (20)	--	04/24/09 11:21	
Matrix Spike (9D23047-MS1)				QC Source: BSD0250-01				Extracted: 04/23/09 19:37						
Lead	EPA 6020	43.3	---	0.546	mg/kg dry	1x	1.91	43.7	94.9%	(75-125)	--	--	04/24/09 11:14	
Post Spike (9D23047-PS1)				QC Source: BSD0250-01				Extracted: 04/23/09 19:37						
Lead	EPA 6020	0.103	---		ug/ml	1x	0.00365	0.100	99.3%	(80-120)	--	--	04/24/09 11:27	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/24/09 15:28
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D23027-BLK1)													Extracted: 04/23/09 14:35	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/23/09 17:54	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/23/09 17:54</i>	
<i>Toluene-d8</i>		<i>95.4%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9D23027-BS1)													Extracted: 04/23/09 14:35	
Benzene	EPA 8260B	0.0442	---	0.00150	mg/kg wet	1x	--	0.0500	88.3%	(70-125)	--	--	04/23/09 17:03	
Ethylbenzene	"	0.0462	---	0.00400	"	"	--	"	92.5%	"	--	--	"	
Methyl tert-butyl ether	"	0.0465	---	0.00100	"	"	--	"	93.0%	(70-130)	--	--	"	
Naphthalene	"	0.0456	---	0.0100	"	"	--	"	91.1%	"	--	--	"	
Toluene	"	0.0442	---	0.00150	"	"	--	"	88.4%	(70-125)	--	--	"	
Total Xylenes	"	0.138	---	0.0100	"	"	--	0.150	91.7%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/23/09 17:03</i>	
<i>Toluene-d8</i>		<i>99.3%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>105%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D23027-BSD1)													Extracted: 04/23/09 14:35	
Benzene	EPA 8260B	0.0432	---	0.00150	mg/kg wet	1x	--	0.0500	86.3%	(70-125)	2.24% (30)		04/23/09 17:29	
Ethylbenzene	"	0.0446	---	0.00400	"	"	--	"	89.2%	"	3.68%	"	"	
Methyl tert-butyl ether	"	0.0452	---	0.00100	"	"	--	"	90.4%	(70-130)	2.83%	"	"	
Naphthalene	"	0.0432	---	0.0100	"	"	--	"	86.4%	"	5.30%	"	"	
Toluene	"	0.0430	---	0.00150	"	"	--	"	85.9%	(70-125)	2.80%	"	"	
Total Xylenes	"	0.135	---	0.0100	"	"	--	0.150	89.7%	(70-130)	2.13%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/23/09 17:29</i>	
<i>Toluene-d8</i>		<i>97.7%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/24/09 15:28
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23041 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D23041-BLK1)										Extracted: 04/23/09 17:17				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/24/09 00:00	

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/24/09 15:28

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/24/09 15:28

Notes and Definitions

Report Specific Notes:

- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **600249**

CLIENT: CONOCO Phillips		INVOICE TO: CP		TURNAROUND REQUEST		
REPORT TO: WMCP Staff		P.O. NUMBER:		in Business Days *		
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses		
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses		
PROJECT NAME: WMCP Phase II				STD. <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1		
PROJECT NUMBER:				STD. <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1		
SAMPLED BY: Matthew McKibbin				OTHER Specify: 24-h		
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		* Turnaround Requests: less than standard may incur Rush Charges.		
				MATRIX (W, S, O)		
				# OF CONT.		
				LOCATION/ COMMENTS		
				TA W/O ID		
1	AREA1-D12-6	4-23-09 / 1215	✓	S	5	Sand & Silt PED=0 01
2	" - D6-14	" / 1240	✓		4	Sand & Silt 1.2 ppm 02
3	" - C6-14	" / 1250	✓		4	Silt w/ sand 1.9 ppm 03
4	" - D6-14	" / 1300	✓		4	Silt w/ sand 0.9 ppm 04
5	DUR-9	" / 1520	✓		4	Sand 1.4 ppm 05
6	AREA1-F13-6	" / 1520	✓		4	Sand 0.9 ppm 06
7						
8						
9						
10						

RELEASED BY: Matthew McKibbin	DATE: 4-23-09	RECEIVED BY: [Signature]	DATE: 4/23/09
PRINT NAME: Matthew McKibbin	TIME: 1530	PRINT NAME: Francisco Luna, Jr.	TIME: 1530
RELEASED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:

ADDITIONAL REMARKS:
 * TCLP samples ≥ 500 mg/kg total lead

@ lab 16:15

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 4/23

Date: 4/23

Date: 4/23

Work Order No. BAND249

Time: 16:15

Time: 16:20

Time: 17:15

Client: _____

Initials: FL

Initials: CL

Initials: CL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler
 Box
 None/Other _____

Ship Container _____ Sign By _____
 On Bottles _____ Date _____
 None

Bubble Bags _____ Styrofoam _____
 Foam Packs _____
 None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____
 Loose Ice _____
 None/Other _____

Placed in freezer #46:
 Y or N or NA
Initial/date/time CL 4/23 @ 17:20

Fed Ex _____ Client _____
 UPS _____ TA Courier
 DHL _____ Mid Valley
 Servoy _____ TDP
 GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 6.0 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact?	<input checked="" type="radio"/> Y or N	_____	Metals Preserved?	Y or N or <input checked="" type="radio"/> NA	_____
Provided by TA?	<input checked="" type="radio"/> Y or N	_____	Client QAPP Preserved?	Y or N or <input checked="" type="radio"/> NA	_____
Correct Type?	<input checked="" type="radio"/> Y or <input checked="" type="radio"/> N	_____	Adequate Volume? (for tests requested)	<input checked="" type="radio"/> Y or N	_____
#Containers match COC?	<input checked="" type="radio"/> Y or <input checked="" type="radio"/> N	_____	Water VOAs: Headspace?	Y or N or <input checked="" type="radio"/> NA	_____
IDs/time/date match COC?	<input checked="" type="radio"/> Y or N	_____	Comments:	_____	_____
Hold Times in hold?	<input checked="" type="radio"/> Y or N	_____	_____	_____	_____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Has client been contacted regarding non-conformances?

Y or N
Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 24, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 04/23/09 16:15.
The following list is a summary of the Work Orders contained in this report, generated on 04/24/09
15:36.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0250	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/24/09 15:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot 34-12	BSD0250-01	Soil	04/23/09 08:40	04/23/09 16:15

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/24/09 15:36
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0250-01 (Amazon Lot 34-12)		Soil			Sampled: 04/23/09 08:40					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.32	mg/kg dry	1x	9D23014	04/23/09 11:40	04/23/09 18:23	
Surrogate(s): 4-BFB (FID)			94.3%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/24/09 15:36
	Project Manager:	Ty Griffith	

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0250-01 (Amazon Lot 34-12)		Soil			Sampled: 04/23/09 08:40					
Lube Oil	NWTPH-Dx	ND	----	26.5	mg/kg dry	1x	9D23042	04/23/09 17:15	04/24/09 02:15	
Kerosene	"	ND	----	10.6	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	10.6	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				87.5%		60 - 135 %	"			"
<i>Octacosane</i>				98.9%		75 - 125 %	"			"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/24/09 15:36

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0250-01 (Amazon Lot 34-12)										
		Soil					Sampled: 04/23/09 08:40			
Acetone	EPA 8260B	ND	----	0.0262	mg/kg dry	1x	9D23027	04/23/09 17:35	04/23/09 18:20	
Benzene	"	ND	----	0.000981	"	"	"	"	"	
Bromobenzene	"	ND	----	0.00327	"	"	"	"	"	
Bromochloromethane	"	ND	----	0.00327	"	"	"	"	"	
Bromodichloromethane	"	ND	----	0.00327	"	"	"	"	"	
Bromoform	"	ND	----	0.00327	"	"	"	"	"	
Bromomethane	"	ND	----	0.00654	"	"	"	"	"	
2-Butanone	"	ND	----	0.0196	"	"	"	"	"	
n-Butylbenzene	"	ND	----	0.00327	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	0.00327	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	0.00327	"	"	"	"	"	
Carbon disulfide	"	ND	----	0.00196	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	0.00327	"	"	"	"	"	
Chlorobenzene	"	ND	----	0.00131	"	"	"	"	"	
Chloroethane	"	ND	----	0.00327	"	"	"	"	"	
Chloroform	"	ND	----	0.00163	"	"	"	"	"	
Chloromethane	"	ND	----	0.00654	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	0.00327	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	0.00327	"	"	"	"	"	
Dibromochloromethane	"	ND	----	0.00327	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	0.00654	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	0.00327	"	"	"	"	"	
Dibromomethane	"	ND	----	0.00327	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	0.00327	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	0.00327	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	0.00327	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	0.00327	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	0.00131	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.000817	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	0.00196	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	0.00196	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	0.00163	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	0.00327	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	0.00327	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	0.00654	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	0.00327	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	0.00327	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.000817	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.00262	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	0.00654	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000654	"	"	"	"	"	
n-Hexane	"	ND	----	0.00327	"	"	"	"	"	
2-Hexanone	"	ND	----	0.0196	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/24/09 15:36

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0250-01 (Amazon Lot 34-12)		Soil		Sampled: 04/23/09 08:40						
Isopropylbenzene	EPA 8260B	ND	----	0.00327	mg/kg dry	1x	9D23027	04/23/09 17:35	04/23/09 18:20	
p-Isopropyltoluene	"	ND	----	0.00327	"	"	"	"	"	"
4-Methyl-2-pentanone	"	ND	----	0.0196	"	"	"	"	"	"
Methylene chloride	"	ND	----	0.00785	"	"	"	"	"	"
Naphthalene	"	ND	----	0.00654	"	"	"	"	"	"
n-Propylbenzene	"	ND	----	0.00327	"	"	"	"	"	"
Styrene	"	ND	----	0.00163	"	"	"	"	"	"
1,2,3-Trichlorobenzene	"	ND	----	0.00654	"	"	"	"	"	"
1,2,4-Trichlorobenzene	"	ND	----	0.00654	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND	----	0.00327	"	"	"	"	"	"
1,1,1,2,2-Tetrachloroethane	"	ND	----	0.00327	"	"	"	"	"	"
Tetrachloroethene	"	ND	----	0.00131	"	"	"	"	"	"
Toluene	"	ND	----	0.000981	"	"	"	"	"	"
1,1,1-Trichloroethane	"	ND	----	0.00163	"	"	"	"	"	"
1,1,2-Trichloroethane	"	ND	----	0.00131	"	"	"	"	"	"
Trichloroethene	"	0.00165	----	0.00163	"	"	"	"	"	"
Trichlorofluoromethane	"	ND	----	0.00327	"	"	"	"	"	"
1,2,3-Trichloropropane	"	ND	----	0.00327	"	"	"	"	"	"
1,2,4-Trimethylbenzene	"	ND	----	0.00327	"	"	"	"	"	"
1,3,5-Trimethylbenzene	"	ND	----	0.00327	"	"	"	"	"	"
Vinyl chloride	"	ND	----	0.00163	"	"	"	"	"	"
o-Xylene	"	ND	----	0.00327	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.00327	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.00654	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>115%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>97.9%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>99.2%</i>	<i>70 - 130 %</i>						

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/24/09 15:36

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0250-01 (Amazon Lot 34-12)										
		Soil					Sampled: 04/23/09 08:40			
Acenaphthene	8270C-SIM	ND	----	0.0106	mg/kg dry	1x	9D23043	04/23/09 17:17	04/24/09 12:26	
Acenaphthylene	"	ND	----	0.0106	"	"	"	"	"	
Anthracene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0106	"	"	"	"	"	
Chrysene	"	ND	----	0.0106	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0106	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0106	"	"	"	"	"	
Fluorene	"	ND	----	0.0106	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0106	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	
Naphthalene	"	ND	----	0.0106	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0106	"	"	"	"	"	
Pyrene	"	ND	----	0.0106	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			58.8%		46 - 125 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/24/09 15:36

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0250-01	(Amazon Lot 34-12)									
		Soil					Sampled: 04/23/09 08:40			
Dry Weight	BSOPSPL003R0 8	93.5	----	1.00	%	1x	9D23041	04/23/09 17:17	04/24/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/24/09 15:36
--	--	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23014 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D23014-BLK1)								Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/23/09 13:22	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 79.4%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/23/09 13:22</i>	
LCS (9D23014-BS1)								Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	49.3	---	5.00	mg/kg wet	1x	--	50.0	98.5%	(80-120)	--	--	04/23/09 13:55	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/23/09 13:55</i>	
LCS Dup (9D23014-BSD1)								Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	48.9	---	5.00	mg/kg wet	1x	--	50.0	97.8%	(80-120)	0.703% (20)		04/23/09 14:27	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.9%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/23/09 14:27</i>	
Duplicate (9D23014-DUP1)				QC Source: BSD0250-01				Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.32	mg/kg dry	1x	ND	--	--	--	NR (40)		04/23/09 18:56	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.5%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/23/09 18:56</i>	
Matrix Spike (9D23014-MS1)				QC Source: BSD0250-01				Extracted: 04/23/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	55.0	---	5.32	mg/kg dry	1x	ND	49.7	111%	(75-130)	--	--	04/23/09 19:28	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/23/09 19:28</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/24/09 15:36
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23042 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D23042-BLK1)

Extracted: 04/23/09 17:15

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/24/09 00:45	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.9%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/24/09 00:45</i>	
<i>Octacosane</i>			<i>101%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9D23042-BS1)

Extracted: 04/23/09 17:15

Lube Oil	NWTPH-Dx	73.0	---	25.0	mg/kg wet	1x	--	66.7	110%	(63-125)	--	--	04/24/09 01:07	
Diesel Range Hydrocarbons	"	71.4	---	10.0	"	"	--	"	107%	(75-125)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.6%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/24/09 01:07</i>	
<i>Octacosane</i>			<i>96.1%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D23042-DUP1)

QC Source: BSD0250-01

Extracted: 04/23/09 17:15

Lube Oil	NWTPH-Dx	ND	---	26.4	mg/kg dry	1x	ND	--	--	--	13.0% (40)	--	04/24/09 01:30	
Kerosene	"	ND	---	10.6	"	"	ND	--	--	--	NR	"	"	
Diesel Range Hydrocarbons	"	ND	---	10.6	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.0%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/24/09 01:30</i>	
<i>Octacosane</i>			<i>98.2%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D23042-MS1)

QC Source: BSD0250-01

Extracted: 04/23/09 17:15

Lube Oil	NWTPH-Dx	76.7	---	26.3	mg/kg dry	1x	3.59	70.1	104%	(26-150)	--	--	04/24/09 01:52	
Diesel Range Hydrocarbons	"	74.9	---	10.5	"	"	ND	"	107%	(40-145)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.5%</i>	<i>Limits: 60-135%</i>		<i>"</i>							<i>04/24/09 01:52</i>	
<i>Octacosane</i>			<i>95.4%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/24/09 15:36
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23047	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D23047-BLK1)

Extracted: 04/23/09 19:37

Chromium	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	04/24/09 11:02	
Arsenic	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	

LCS (9D23047-BS1)

Extracted: 04/23/09 19:37

Silver	EPA 6020	39.7	---	0.500	mg/kg wet	1x	--	40.0	99.3%	(80-120)	--	--	04/24/09 11:08	
Cadmium	"	39.2	---	0.500	"	"	--	"	97.9%	"	--	--	"	
Chromium	"	37.0	---	0.500	"	"	--	"	92.5%	"	--	--	"	
Arsenic	"	39.3	---	0.500	"	"	--	"	98.4%	"	--	--	"	
Barium	"	39.6	---	5.00	"	"	--	"	99.0%	"	--	--	"	
Lead	"	38.6	---	0.500	"	"	--	"	96.6%	"	--	--	"	
Selenium	"	41.3	---	1.00	"	"	--	"	103%	"	--	--	"	

Duplicate (9D23047-DUP1)

QC Source: BSD0250-01

Extracted: 04/23/09 19:37

Cadmium	EPA 6020	ND	---	0.546	mg/kg dry	1x	ND	--	--	--	14.3% (20)	--	04/24/09 11:21	
Silver	"	ND	---	0.546	"	"	ND	--	--	--	NR	"	"	
Barium	"	34.8	---	5.46	"	"	36.5	--	--	--	4.92%	"	"	
Selenium	"	ND	---	1.09	"	"	ND	--	--	--	NR	"	"	
Lead	"	1.95	---	0.546	"	"	1.91	--	--	--	1.78%	"	"	
Chromium	"	21.6	---	0.546	"	"	21.0	--	--	--	2.82%	"	"	
Arsenic	"	1.64	---	0.546	"	"	1.72	--	--	--	5.23%	"	"	

Matrix Spike (9D23047-MS1)

QC Source: BSD0250-01

Extracted: 04/23/09 19:37

Selenium	EPA 6020	43.6	---	1.09	mg/kg dry	1x	ND	43.7	99.9%	(75-125)	--	--	04/24/09 11:14	
Silver	"	39.2	---	0.546	"	"	ND	"	89.8%	"	--	--	"	
Lead	"	43.3	---	0.546	"	"	1.91	"	94.9%	"	--	--	"	
Cadmium	"	43.3	---	0.546	"	"	0.435	"	98.3%	"	--	--	"	
Chromium	"	65.2	---	0.546	"	"	21.0	"	101%	"	--	--	"	
Arsenic	"	42.7	---	0.546	"	"	1.72	"	93.8%	"	--	--	"	
Barium	"	76.9	---	5.46	"	"	36.5	"	92.5%	"	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/24/09 15:36
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23047	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9D23047-PS1)			QC Source: BSD0250-01				Extracted: 04/23/09 19:37							
Selenium	EPA 6020	0.105	---		ug/ml	1x	0.000290	0.100	105%	(80-120)	--	--	04/24/09 11:27	
Silver	"	0.0956	---		"	"	0.0000200	"	95.6%	"	--	--	"	
Cadmium	"	0.102	---		"	"	0.000830	"	101%	"	--	--	"	
Chromium	"	0.134	---		"	"	0.0400	"	94.0%	"	--	--	"	
Barium	"	0.172	---		"	"	0.0697	"	102%	"	--	--	"	
Arsenic	"	0.106	---		"	"	0.00329	0.0995	103%	"	--	--	"	
Lead	"	0.103	---		"	"	0.00365	0.100	99.3%	"	--	--	"	

QC Batch: 9D24017	Soil Preparation Method: EPA 7471A
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D24017-BLK1)			QC Source: BSD0250-01				Extracted: 04/24/09 12:23							
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	04/24/09 13:15	
LCS (9D24017-BS1)			QC Source: BSD0250-01				Extracted: 04/24/09 12:23							
Mercury	EPA 7471A	0.606	---	0.100	mg/kg wet	1x	--	0.667	91.0%	(80-120)	--	--	04/24/09 13:18	
LCS Dup (9D24017-BSD1)			QC Source: BSD0250-01				Extracted: 04/24/09 12:23							
Mercury	EPA 7471A	0.603	---	0.100	mg/kg wet	1x	--	0.667	90.4%	(80-120)	0.591% (20)		04/24/09 13:20	
Matrix Spike (9D24017-MS1)			QC Source: BSD0250-01				Extracted: 04/24/09 12:23							
Mercury	EPA 7471A	0.676	---	0.108	mg/kg dry	1x	0.0182	0.723	91.1%	(80-125)	--	--	04/24/09 13:23	
Matrix Spike Dup (9D24017-MSD1)			QC Source: BSD0250-01				Extracted: 04/24/09 12:23							
Mercury	EPA 7471A	0.681	---	0.100	mg/kg dry	1x	0.0182	0.668	99.2%	(80-125)	0.729% (30)		04/24/09 13:25	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/24/09 15:36
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (9D23027-BLK1)

Extracted: 04/23/09 14:35

Acetone	EPA 8260B	ND	---	0.0400	mg/kg wet	1x	--	--	--	--	--	--	04/23/09 17:54	
Benzene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.00300	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.00125	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/24/09 15:36
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D23027-BLK1)													Extracted: 04/23/09 14:35	
Hexachlorobutadiene	EPA 8260B	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/23/09 17:54	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0120	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.00200	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00250	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>101%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>							<i>04/23/09 17:54</i>	
	<i>Toluene-d8</i>		<i>95.4%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/24/09 15:36

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D23027-BS1)													Extracted: 04/23/09 14:35	
Acetone	EPA 8260B	0.536	---	0.0400	mg/kg wet	1x	--	0.500	107%	(60-140)	--	--	04/23/09 17:03	
Benzene	"	0.0442	---	0.00150	"	"	--	0.0500	88.3%	(70-125)	--	--	"	
2-Butanone	"	0.486	---	0.0300	"	"	--	0.500	97.2%	(60-140)	--	--	"	
Carbon disulfide	"	0.0447	---	0.00300	"	"	--	0.0500	89.4%	(70-130)	--	--	"	
Chlorobenzene	"	0.0449	---	0.00200	"	"	--	"	89.7%	(70-125)	--	--	"	
1,1-Dichloroethane	"	0.0450	---	0.00200	"	"	--	"	89.9%	(75-125)	--	--	"	
1,1-Dichloroethene	"	0.0436	---	0.00300	"	"	--	"	87.3%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	0.0453	---	0.00300	"	"	--	"	90.6%	(75-125)	--	--	"	
Ethylbenzene	"	0.0462	---	0.00400	"	"	--	"	92.5%	(70-125)	--	--	"	
Hexachlorobutadiene	"	0.0427	---	0.0100	"	"	--	"	85.4%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	0.528	---	0.0300	"	"	--	0.500	106%	(60-140)	--	--	"	
Tetrachloroethene	"	0.0442	---	0.00200	"	"	--	0.0500	88.4%	(70-125)	--	--	"	
Toluene	"	0.0442	---	0.00150	"	"	--	"	88.4%	"	--	--	"	
1,1,1-Trichloroethane	"	0.0447	---	0.00250	"	"	--	"	89.4%	(70-130)	--	--	"	
Trichloroethene	"	0.0441	---	0.00250	"	"	--	"	88.2%	(70-125)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 103%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>04/23/09 17:03</i>	
<i>Toluene-d8</i>		<i>99.3%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>105%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D23027-BSD1)

Extracted: 04/23/09 14:35

Acetone	EPA 8260B	0.522	---	0.0400	mg/kg wet	1x	--	0.500	104%	(60-140)	2.59% (30)		04/23/09 17:29	
Benzene	"	0.0432	---	0.00150	"	"	--	0.0500	86.3%	(70-125)	2.24%	"	"	
2-Butanone	"	0.458	---	0.0300	"	"	--	0.500	91.7%	(60-140)	5.87%	"	"	
Carbon disulfide	"	0.0450	---	0.00300	"	"	--	0.0500	90.0%	(70-130)	0.602%	"	"	
Chlorobenzene	"	0.0439	---	0.00200	"	"	--	"	87.7%	(70-125)	2.25%	"	"	
1,1-Dichloroethane	"	0.0451	---	0.00200	"	"	--	"	90.2%	(75-125)	0.267%	"	"	
1,1-Dichloroethene	"	0.0432	---	0.00300	"	"	--	"	86.5%	(70-130)	0.921%	"	"	
cis-1,2-Dichloroethene	"	0.0450	---	0.00300	"	"	--	"	90.0%	(75-125)	0.620%	"	"	
Ethylbenzene	"	0.0446	---	0.00400	"	"	--	"	89.2%	(70-125)	3.68%	"	"	
Hexachlorobutadiene	"	0.0431	---	0.0100	"	"	--	"	86.1%	(70-130)	0.863%	"	"	
4-Methyl-2-pentanone	"	0.500	---	0.0300	"	"	--	0.500	99.9%	(60-140)	5.45%	"	"	
Tetrachloroethene	"	0.0426	---	0.00200	"	"	--	0.0500	85.1%	(70-125)	3.73%	"	"	
Toluene	"	0.0430	---	0.00150	"	"	--	"	85.9%	"	2.80%	"	"	
1,1,1-Trichloroethane	"	0.0446	---	0.00250	"	"	--	"	89.1%	(70-130)	0.336%	"	"	
Trichloroethene	"	0.0435	---	0.00250	"	"	--	"	87.0%	(70-125)	1.37%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 100%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>04/23/09 17:29</i>	
<i>Toluene-d8</i>		<i>97.7%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/24/09 15:36
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23043 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D23043-BLK1)													Extracted: 04/23/09 17:17			
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/24/09 10:43			
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): p-Terphenyl-d14</i>													<i>Recovery: 65.2%</i>	<i>Limits: 46-125%</i>	<i>"</i>	<i>04/24/09 10:43</i>

LCS (9D23043-BS1)													Extracted: 04/23/09 17:17	
Acenaphthene	8270C-SIM	0.558	---	0.0100	mg/kg wet	1x	--	0.667	83.7%	(65-130)	--	--	04/24/09 11:09	
Acenaphthylene	"	0.662	---	0.0100	"	"	--	"	99.4%	(67-142)	--	--	"	
Anthracene	"	0.728	---	0.0100	"	"	--	"	109%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.544	---	0.0100	"	"	--	"	81.7%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.569	---	0.0100	"	"	--	"	85.3%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.593	---	0.0100	"	"	--	"	88.9%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.524	---	0.0100	"	"	--	"	78.7%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.589	---	0.0100	"	"	--	"	88.3%	"	--	--	"	
Chrysene	"	0.637	---	0.0100	"	"	--	"	95.6%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.570	---	0.0100	"	"	--	"	85.5%	(56-149)	--	--	"	
Fluoranthene	"	0.604	---	0.0100	"	"	--	"	90.7%	(72-145)	--	--	"	
Fluorene	"	0.642	---	0.0100	"	"	--	"	96.3%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.559	---	0.0100	"	"	--	"	83.9%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.480	---	0.0100	"	"	--	"	72.0%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.446	---	0.0100	"	"	--	"	66.9%	(56-124)	--	--	"	
Naphthalene	"	0.456	---	0.0100	"	"	--	"	68.4%	(56-146)	--	--	"	
Phenanthrene	"	0.583	---	0.0100	"	"	--	"	87.5%	(64-139)	--	--	"	
Pyrene	"	0.497	---	0.0100	"	"	--	"	74.6%	(58-149)	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 04/24/09 15:36

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23043 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9D23043-BS1)

Extracted: 04/23/09 17:17

Surrogate(s): p-Terphenyl-d14 Recovery: 55.0% Limits: 46-125% 1x 04/24/09 11:09

Matrix Spike (9D23043-MS1)

QC Source: BSD0250-01

Extracted: 04/23/09 17:17

Acenaphthene	8270C-SIM	0.590	---	0.0106	mg/kg dry	1x	ND	0.706	83.6%	(64-140)	--	--	04/24/09 11:35	
Acenaphthylene	"	0.691	---	0.0106	"	"	ND	"	97.8%	(66-150)	--	--	"	
Anthracene	"	0.775	---	0.0106	"	"	ND	"	110%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.571	---	0.0106	"	"	0.00190	"	80.5%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.610	---	0.0106	"	"	ND	"	86.4%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.636	---	0.0106	"	"	ND	"	90.1%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.568	---	0.0106	"	"	ND	"	80.5%	"	--	--	"	
Benzo (ghi) perylene	"	0.564	---	0.0106	"	"	ND	"	79.9%	"	--	--	"	
Chrysene	"	0.668	---	0.0106	"	"	0.00218	"	94.2%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.549	---	0.0106	"	"	ND	"	77.7%	(55-150)	--	--	"	
Fluoranthene	"	0.630	---	0.0106	"	"	ND	"	89.3%	(70-150)	--	--	"	
Fluorene	"	0.668	---	0.0106	"	"	ND	"	94.5%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.539	---	0.0106	"	"	ND	"	76.3%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.503	---	0.0106	"	"	ND	"	71.3%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.469	---	0.0106	"	"	ND	"	66.5%	(50-140)	--	--	"	
Naphthalene	"	0.484	---	0.0106	"	"	ND	"	68.5%	(47-147)	--	--	"	
Phenanthrene	"	0.611	---	0.0106	"	"	ND	"	86.5%	(56-150)	--	--	"	
Pyrene	"	0.529	---	0.0106	"	"	ND	"	75.0%	(57-150)	--	--	"	

Surrogate(s): p-Terphenyl-d14 Recovery: 56.3% Limits: 46-125% " 04/24/09 11:35

Matrix Spike Dup (9D23043-MSD1)

QC Source: BSD0250-01

Extracted: 04/23/09 17:17

Acenaphthene	8270C-SIM	0.573	---	0.0106	mg/kg dry	1x	ND	0.706	81.1%	(64-140)	3.00% (41)		04/24/09 12:00	
Acenaphthylene	"	0.670	---	0.0106	"	"	ND	"	94.9%	(66-150)	3.04%	"	"	
Anthracene	"	0.762	---	0.0106	"	"	ND	"	108%	(54-150)	1.67%	"	"	
Benzo (a) anthracene	"	0.554	---	0.0106	"	"	0.00190	"	78.2%	(57-150)	2.95%	"	"	
Benzo (a) pyrene	"	0.597	---	0.0106	"	"	ND	"	84.5%	(55-150)	2.22% (35)	"	"	
Benzo (b) fluoranthene	"	0.622	---	0.0106	"	"	ND	"	88.1%	(54-150)	2.18% (41)	"	"	
Benzo (k) fluoranthene	"	0.567	---	0.0106	"	"	ND	"	80.3%	"	0.236%	"	"	
Benzo (ghi) perylene	"	0.580	---	0.0106	"	"	ND	"	82.1%	"	2.74%	"	"	
Chrysene	"	0.651	---	0.0106	"	"	0.00218	"	92.0%	(65-150)	2.44% (40)	"	"	
Dibenz (a,h) anthracene	"	0.561	---	0.0106	"	"	ND	"	79.5%	(55-150)	2.29% (41)	"	"	
Fluoranthene	"	0.625	---	0.0106	"	"	ND	"	88.5%	(70-150)	0.844%	"	"	
Fluorene	"	0.646	---	0.0106	"	"	ND	"	91.5%	(74-150)	3.31% (44)	"	"	
Indeno (1,2,3-cd) pyrene	"	0.551	---	0.0106	"	"	ND	"	78.1%	(50-150)	2.31%	"	"	
1-Methylnaphthalene	"	0.484	---	0.0106	"	"	ND	"	68.5%	(45-145)	3.95% (41)	"	"	
2-Methylnaphthalene	"	0.454	---	0.0106	"	"	ND	"	64.2%	(50-140)	3.43%	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/24/09 15:36
--	--	-----------------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23043 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9D23043-MSD1)			QC Source: BSD0250-01				Extracted: 04/23/09 17:17							
Naphthalene	8270C-SIM	0.472	---	0.0106	mg/kg dry	1x	ND	0.706	66.9%	(47-147)	2.44%	(41)	04/24/09 12:00	
Phenanthrene	"	0.595	---	0.0106	"	"	ND	"	84.3%	(56-150)	2.55%	"	"	
Pyrene	"	0.511	---	0.0106	"	"	ND	"	72.4%	(57-150)	3.51%	"	"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 55.1%		Limits: 46-125%		"						04/24/09 12:00		

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/24/09 15:36
--	--	-----------------------------------

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23041 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D23041-BLK1)										Extracted: 04/23/09 17:17				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/24/09 00:00	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/24/09 15:36

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/24/09 15:36

Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **6002 50**

CLIENT: URS CORP		INVOICE TO: URS CORP SEATTLE, WA																																	
REPORT TO: WMEP Staff		P.O. NUMBER:																																	
PHONE:	FAX:	PRESERVATIVE																																	
PROJECT NAME: Water Phase II		REQUESTED ANALYSES																																	
PROJECT NUMBER:		<table border="1"> <tr> <td>10</td><td>7</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td><1</td> </tr> <tr> <td colspan="8">Organic & Inorganic Analyses</td> </tr> <tr> <td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td><1</td><td colspan="2"> OTHER Specify: 24-hr </td> </tr> <tr> <td colspan="8">* Turnaround Requests less than standard may incur Rush Charges.</td> </tr> </table>		10	7	5	4	3	2	1	<1	Organic & Inorganic Analyses								5	4	3	2	1	<1	OTHER Specify: 24-hr		* Turnaround Requests less than standard may incur Rush Charges.							
10	7	5	4	3	2	1	<1																												
Organic & Inorganic Analyses																																			
5	4	3	2	1	<1	OTHER Specify: 24-hr																													
* Turnaround Requests less than standard may incur Rush Charges.																																			
SAMPLED BY: Matthew McKeihin	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID																													
	Amazon lot 34-17	4-23-09 / 0840	S	3	Clean Fill	01																													
2																																			
3																																			
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RELEASED BY: Matt McKeihin	DATE: 4-22-09	RECEIVED BY: [Signature]	DATE: 4/23/09																																
PRINT NAME: MATTHEW MCKEIHAN	TIME: 10:50	PRINT NAME: Francisco Luna, Jr.	TIME: 1525																																
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ADDITIONAL REMARKS: URS CORP																																			
TEMP: URS		PAGE OF																																	

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

CL
4/23

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: _____

Date: 4/23

Date: 4/23

Date: 4/23

Work Order No. BAD0250

Time: 10:15

Time: 17:15

Time: 17:15

Client: _____

Initials: FL

Initials: CL

Initials: CL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler
 Box
 None/Other _____

Ship Container
 On Bottles
 None
Sign By _____
Date _____

Bubble Bags
 Foam Packs
 None/Other _____
 Styrofoam

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack
 Loose Ice
 None/Other _____

Placed in freezer #46:
Y or N or NA
Initial/date/time CL 4/23 @ 17:20

Fed Ex
 UPS
 DHL
 Servoy
 GS
 Client
 TA Courier
 Mid Valley
 TDP
 Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 4.0 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N
Provided by TA? Y or N
Correct Type? Y or N
#Containers match COC? Y or N
IDs/time/date match COC? Y or N
Hold Times in hold? Y or N

Metals Preserved? Y or N or NA
Client QAPP Preserved? Y or N or NA
Adequate Volume? Y or N
(for tests requested)
Water VOAs: Headspace? Y or N or NA
Comments: _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?
Has client been contacted regarding non-conformances?

Y or N
Y or N If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

May 07, 2009

Melanie Bryce
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: COP Westlake & Mercer Cleanup Project

Enclosed are the results of analyses for samples received by the laboratory on 04/23/09 16:15.
The following list is a summary of the Work Orders contained in this report, generated on 05/07/09
13:33.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0261	COP Westlake & Mercer Clea	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Bryce

Report Created:

05/07/09 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I-042309	BSD0261-01	Water	04/23/09 09:00	04/23/09 16:15
M-042309	BSD0261-02	Water	04/23/09 09:05	04/23/09 16:15
E01-042309	BSD0261-03	Water	04/23/09 09:20	04/23/09 16:15
E02-042309	BSD0261-04	Water	04/23/09 09:30	04/23/09 16:15
E03-042309	BSD0261-05	Water	04/23/09 09:40	04/23/09 16:15

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Bryce	Report Created: 05/07/09 13:33
--	--	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0261-01 (I-042309)		Water			Sampled: 04/23/09 09:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	410	----	50.0	ug/l	1x	9D27017	04/27/09 08:24	04/27/09 09:23	
<i>Surrogate(s): 4-BFB (FID)</i>		94.7%		70 - 145 %		"			"	
BSD0261-02 (M-042309)		Water			Sampled: 04/23/09 09:05					
Gasoline Range Hydrocarbons	NWTPH-Gx	160	----	50.0	ug/l	1x	9D27017	04/27/09 08:24	04/27/09 10:27	
<i>Surrogate(s): 4-BFB (FID)</i>		95.0%		70 - 145 %		"			"	
BSD0261-03 (E01-042309)		Water			Sampled: 04/23/09 09:20					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9D27017	04/27/09 08:24	04/27/09 10:59	
<i>Surrogate(s): 4-BFB (FID)</i>		96.4%		70 - 145 %		"			"	
BSD0261-04 (E02-042309)		Water			Sampled: 04/23/09 09:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9D27017	04/27/09 08:24	04/27/09 11:31	
<i>Surrogate(s): 4-BFB (FID)</i>		96.2%		70 - 145 %		"			"	
BSD0261-05 (E03-042309)		Water			Sampled: 04/23/09 09:40					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9D27017	04/27/09 08:24	04/27/09 12:04	
<i>Surrogate(s): 4-BFB (FID)</i>		95.4%		70 - 145 %		"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Bryce	Report Created: 05/07/09 13:33
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0261-01 (I-042309)		Water			Sampled: 04/23/09 09:00					
Kerosene	NWTPH-Dx	1.47	----	1.18	mg/l	5x	9D23045	04/24/09 18:34	04/28/09 01:03	Q8
Diesel Range Hydrocarbons	"	1.81	----	1.18	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>			90.2%		53 - 120 %	"				"
<i>Octacosane</i>			102%		68 - 123 %	"				"
BSD0261-01RE1 (I-042309)		Water			Sampled: 04/23/09 09:00					
Lube Oil	NWTPH-Dx	1.01	----	0.472	mg/l	1x	9D23045	04/24/09 18:34	04/28/09 18:28	Q1
<i>Surrogate(s): 2-FBP</i>			102%		53 - 125 %	"				"
<i>Octacosane</i>			97.8%		68 - 125 %	"				"
BSD0261-02RE1 (M-042309)		Water			Sampled: 04/23/09 09:05					
Lube Oil	NWTPH-Dx	ND	----	0.476	mg/l	1x	9D23045	04/24/09 18:34	04/29/09 09:26	
Kerosene	"	0.793	----	0.238	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	1.07	----	0.238	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>			93.2%		53 - 125 %	"				"
<i>Octacosane</i>			104%		68 - 125 %	"				"
BSD0261-03 (E01-042309)		Water			Sampled: 04/23/09 09:20					
Lube Oil	NWTPH-Dx	ND	----	0.472	mg/l	1x	9D23045	04/24/09 18:34	04/28/09 01:47	
Kerosene	"	ND	----	0.236	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	0.236	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.4%		53 - 120 %	"				"
<i>Octacosane</i>			101%		68 - 123 %	"				"
BSD0261-04 (E02-042309)		Water			Sampled: 04/23/09 09:30					
Lube Oil	NWTPH-Dx	ND	----	0.472	mg/l	1x	9D23045	04/24/09 18:34	04/28/09 02:09	
Kerosene	"	ND	----	0.236	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	0.236	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			87.4%		53 - 120 %	"				"
<i>Octacosane</i>			110%		68 - 123 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	COP Westlake & Mercer Cleanup Project	Report Created:
	Project Number:	33759383.05000	05/07/09 13:33
	Project Manager:	Melanie Bryce	

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0261-05 (E03-042309)		Water			Sampled: 04/23/09 09:40					
Lube Oil	NWTPH-Dx	ND	----	0.472	mg/l	1x	9D23045	04/24/09 18:34	04/28/09 02:30	
Kerosene	"	ND	----	0.236	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	0.236	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				73.6%		53 - 120 %	"			"
<i>Octacosane</i>				88.4%		68 - 123 %	"			"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000
 Project Manager: Melanie Bryce

Report Created:
 05/07/09 13:33

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0261-01 (I-042309)		Water			Sampled: 04/23/09 09:00					
Benzene	EPA 8260B	2.07	----	0.500	ug/l	1x	9D29015	04/29/09 12:56	04/29/09 16:28	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	"
Toluene	"	0.720	----	0.500	"	"	"	"	"	"
o-Xylene	"	3.26	----	1.00	"	"	"	"	"	"
m,p-Xylene	"	4.73	----	2.00	"	"	"	"	"	"
Xylenes (total)	"	7.99	----	3.00	"	"	"	"	"	"
Surrogate(s):	1,2-DCA-d4		107%		80 - 120 %	"				"
	Toluene-d8		101%		80 - 120 %	"				"
	4-BFB		99.4%		80 - 120 %	"				"
BSD0261-02 (M-042309)		Water			Sampled: 04/23/09 09:05					
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9D29015	04/29/09 12:56	04/29/09 16:57	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	"
Toluene	"	ND	----	0.500	"	"	"	"	"	"
o-Xylene	"	ND	----	1.00	"	"	"	"	"	"
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	"
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	"
Surrogate(s):	1,2-DCA-d4		108%		80 - 120 %	"				"
	Toluene-d8		103%		80 - 120 %	"				"
	4-BFB		100%		80 - 120 %	"				"
BSD0261-03 (E01-042309)		Water			Sampled: 04/23/09 09:20					
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9D29015	04/29/09 12:56	04/29/09 17:25	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	"
Toluene	"	ND	----	0.500	"	"	"	"	"	"
o-Xylene	"	ND	----	1.00	"	"	"	"	"	"
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	"
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	"
Surrogate(s):	1,2-DCA-d4		109%		80 - 120 %	"				"
	Toluene-d8		102%		80 - 120 %	"				"
	4-BFB		101%		80 - 120 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Bryce	Report Created: 05/07/09 13:33
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D27017 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D27017-BLK1)

Extracted: 04/27/09 08:04

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	04/27/09 08:20	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.4%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>04/27/09 08:20</i>	

LCS (9D27017-BS1)

Extracted: 04/27/09 08:04

Gasoline Range Hydrocarbons	NWTPH-Gx	1000	---	50.0	ug/l	1x	--	1000	100%	(80-120)	--	--	04/27/09 08:52	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>04/27/09 08:52</i>	

Duplicate (9D27017-DUP1)

QC Source: BSD0261-01

Extracted: 04/27/09 08:04

Gasoline Range Hydrocarbons	NWTPH-Gx	404	---	50.0	ug/l	1x	410	--	--	--	1.52% (25)	--	04/27/09 09:55	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.4%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>04/27/09 09:55</i>	

Matrix Spike (9D27017-MS1)

QC Source: BSD0261-01

Extracted: 04/27/09 08:04

Gasoline Range Hydrocarbons	NWTPH-Gx	1470	---	50.0	ug/l	1x	410	1000	106%	(70-135)	--	--	04/27/09 12:36	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>04/27/09 12:36</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Bryce	Report Created: 05/07/09 13:33
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D23045 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D23045-BLK1)

Extracted: 04/23/09 18:34

Lube Oil	NWTPH-Dx	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	04/27/09 18:50	
Kerosene	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	0.250	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>80.9%</i>	<i>Limits: 53-120%</i>		<i>"</i>							<i>04/27/09 18:50</i>	
<i>Octacosane</i>		<i>97.1%</i>		<i>68-123%</i>		<i>"</i>							<i>"</i>	

LCS (9D23045-BS1)

Extracted: 04/23/09 18:34

Lube Oil	NWTPH-Dx	1.38	---	0.500	mg/l	1x	--	2.00	69.1%	(60-125)	--	--	04/27/09 19:12	MNRI
Diesel Range Hydrocarbons	"	1.48	---	0.250	"	"	--	"	73.8%	(65-120)	--	--	"	MNRI
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>72.2%</i>	<i>Limits: 53-120%</i>		<i>"</i>							<i>04/27/09 19:12</i>	MNRI
<i>Octacosane</i>		<i>77.6%</i>		<i>68-123%</i>		<i>"</i>							<i>"</i>	MNRI

LCS Dup (9D23045-BSD1)

Extracted: 04/23/09 18:34

Lube Oil	NWTPH-Dx	1.50	---	0.500	mg/l	1x	--	2.00	75.0%	(60-125)	8.21%	(50)	04/27/09 19:57	
Diesel Range Hydrocarbons	"	1.58	---	0.250	"	"	--	"	79.2%	(65-120)	7.06%	(25)	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>69.0%</i>	<i>Limits: 53-120%</i>		<i>"</i>							<i>04/27/09 19:57</i>	
<i>Octacosane</i>		<i>71.5%</i>		<i>68-123%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Bryce	Report Created: 05/07/09 13:33
--	--	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D29015 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D29015-BLK1)

Extracted: 04/29/09 11:56

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	04/29/09 14:34	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>04/29/09 14:34</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>100%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

LCS (9D29015-BS1)

Extracted: 04/29/09 11:56

Benzene	EPA 8260B	39.2	---	0.500	ug/l	1x	--	40.0	98.0%	(80-120)	--	--	04/29/09 12:32	
Ethylbenzene	"	41.9	---	0.500	"	"	--	"	105%	(75-125)	--	--	"	
Toluene	"	38.8	---	0.500	"	"	--	"	97.1%	"	--	--	"	
o-Xylene	"	40.3	---	1.00	"	"	--	"	101%	"	--	--	"	
m,p-Xylene	"	84.0	---	2.00	"	"	--	80.0	105%	"	--	--	"	
Xylenes (total)	"	124	---	3.00	"	"	--	120	104%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>04/29/09 12:32</i>	
<i>Toluene-d8</i>			<i>98.6%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>99.0%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D29015-MS1)

QC Source: BSD0261-01

Extracted: 04/29/09 11:56

Benzene	EPA 8260B	42.8	---	0.500	ug/l	1x	2.07	40.0	102%	(75-130)	--	--	04/29/09 13:01	
Ethylbenzene	"	43.2	---	0.500	"	"	0.490	"	107%	(75-135)	--	--	"	
Toluene	"	40.6	---	0.500	"	"	0.720	"	99.7%	(75-125)	--	--	"	
o-Xylene	"	44.4	---	1.00	"	"	3.26	"	103%	"	--	--	"	
m,p-Xylene	"	91.1	---	2.00	"	"	4.73	80.0	108%	"	--	--	"	
Xylenes (total)	"	135	---	3.00	"	"	7.99	120	106%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>04/29/09 13:01</i>	
<i>Toluene-d8</i>			<i>99.0%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>97.8%</i>	<i>80-120%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Bryce	Report Created: 05/07/09 13:33
--	--	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D29015 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9D29015-MSD1)			QC Source: BSD0261-01				Extracted: 04/29/09 11:56							
Benzene	EPA 8260B	41.6	---	0.500	ug/l	1x	2.07	40.0	98.8%	(75-130)	2.73% (25)		04/29/09 13:29	
Ethylbenzene	"	42.4	---	0.500	"	"	0.490	"	105%	(75-135)	1.78% (30)		"	
Toluene	"	39.8	---	0.500	"	"	0.720	"	97.8%	(75-125)	1.94%		"	
o-Xylene	"	43.7	---	1.00	"	"	3.26	"	101%	"	1.45%		"	
m,p-Xylene	"	88.8	---	2.00	"	"	4.73	80.0	105%	"	2.49%		"	
Xylenes (total)	"	133	---	3.00	"	"	7.99	120	104%	"	2.15%		"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 106%</i>		<i>Limits: 80-120%</i>								<i>04/29/09 13:29</i>		
<i>Toluene-d8</i>		<i>100%</i>		<i>80-120%</i>								<i>"</i>		
<i>4-BFB</i>		<i>97.6%</i>		<i>80-120%</i>								<i>"</i>		

QC Batch: 9D30033 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30033-BLK1)							Extracted: 04/30/09 13:04							
Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	04/30/09 16:12	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 108%</i>		<i>Limits: 80-120%</i>								<i>04/30/09 16:12</i>		
<i>Toluene-d8</i>		<i>103%</i>		<i>80-120%</i>								<i>"</i>		
<i>4-BFB</i>		<i>99.6%</i>		<i>80-120%</i>								<i>"</i>		

LCS (9D30033-BS1)							Extracted: 04/30/09 13:04							
Benzene	EPA 8260B	39.4	---	0.500	ug/l	1x	--	40.0	98.6%	(80-120)	--	--	04/30/09 13:20	
Ethylbenzene	"	42.9	---	0.500	"	"	--	"	107%	(75-125)	--	--	"	
Toluene	"	39.5	---	0.500	"	"	--	"	98.8%	"	--	--	"	
o-Xylene	"	40.8	---	1.00	"	"	--	"	102%	"	--	--	"	
m,p-Xylene	"	85.7	---	2.00	"	"	--	80.0	107%	"	--	--	"	
Xylenes (total)	"	127	---	3.00	"	"	--	120	105%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 106%</i>		<i>Limits: 80-120%</i>								<i>04/30/09 13:20</i>		
<i>Toluene-d8</i>		<i>100%</i>		<i>80-120%</i>								<i>"</i>		
<i>4-BFB</i>		<i>98.8%</i>		<i>80-120%</i>								<i>"</i>		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Bryce	Report Created: 05/07/09 13:33
--	--	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30033 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike (9D30033-MS1)			QC Source: BSD0322-02					Extracted: 04/30/09 13:04						
Benzene	EPA 8260B	42.5	---	0.500	ug/l	1x	1.05	40.0	104%	(75-130)	--	--	04/30/09 13:49	
Ethylbenzene	"	44.2	---	0.500	"	"	ND	"	110%	(75-135)	--	--	"	
Toluene	"	40.3	---	0.500	"	"	ND	"	101%	(75-125)	--	--	"	
o-Xylene	"	41.8	---	1.00	"	"	ND	"	104%	"	--	--	"	
m,p-Xylene	"	87.3	---	2.00	"	"	ND	80.0	109%	"	--	--	"	
Xylenes (total)	"	129	---	3.00	"	"	ND	120	108%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 106%</i>		<i>Limits: 80-120%</i>		<i>"</i>						<i>04/30/09 13:49</i>		
<i>Toluene-d8</i>		<i>98.2%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>98.4%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		

Matrix Spike Dup (9D30033-MSD1)			QC Source: BSD0322-02					Extracted: 04/30/09 13:04						
Benzene	EPA 8260B	40.9	---	0.500	ug/l	1x	1.05	40.0	99.5%	(75-130)	3.98% (25)		04/30/09 14:18	
Ethylbenzene	"	43.1	---	0.500	"	"	ND	"	108%	(75-135)	2.45% (30)		"	
Toluene	"	39.3	---	0.500	"	"	ND	"	98.3%	(75-125)	2.51%		"	
o-Xylene	"	41.0	---	1.00	"	"	ND	"	103%	"	1.84%		"	
m,p-Xylene	"	86.3	---	2.00	"	"	ND	80.0	108%	"	1.19%		"	
Xylenes (total)	"	127	---	3.00	"	"	ND	120	106%	"	1.40%		"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 105%</i>		<i>Limits: 80-120%</i>		<i>"</i>						<i>04/30/09 14:18</i>		
<i>Toluene-d8</i>		<i>98.9%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>98.7%</i>		<i>80-120%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Bryce

Report Created:

05/07/09 13:33

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 8260B	Water	X	X
NWTPH-Dx	Water		X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Bryce

Report Created:

05/07/09 13:33

Notes and Definitions

Report Specific Notes:

- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Q1 - Does not match typical pattern
- Q8 - Detected hydrocarbons in the gasoline range appear to be due to overlap of diesel range hydrocarbons.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: 303
 (applies to temp at receipt)
 Date: 4/23/09 Date: 04.24 Date: 4/24/09 Date: _____ Work Order No. BSD0261
 Time: 1615 Time: 0931 Time: 1350 Time: _____ Client: _____
 Initials: FL Initials: OW Initials: MAJ Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs
 _____ None/Other _____ None _____ None/Other Bubble Wrap

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley
 _____ Senvoy _____ TDP
 _____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 5.9 or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ ID _____ ID _____
 Intact? or N _____ Metals Preserved? Y or N or NA _____
 Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA _____
 Correct Type? or N _____ Adequate Volume? or N _____
 (for tests requested)
 #Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA _____
 IDs/time/date match COC? or N _____ Comments: _____
 Hold Times in hold? or N _____

PROJECT MANAGEMENT
 Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete
 Comments, Problems _____

Total access set up? _____ Y or N

April 27, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/24/09 16:50.
The following list is a summary of the Work Orders contained in this report, generated on 04/27/09
14:32.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0275	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/27/09 14:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-B4-14	BSD0275-01	Soil	04/24/09 11:00	04/24/09 16:50
Area1-B5-14	BSD0275-02	Soil	04/24/09 11:10	04/24/09 16:50
Area1-C4-14	BSD0275-03	Soil	04/24/09 11:20	04/24/09 16:50
Area1-C5-14	BSD0275-04	Soil	04/24/09 11:30	04/24/09 16:50
Area1-D4-14	BSD0275-05	Soil	04/24/09 13:30	04/24/09 16:50
Area1-D5-14	BSD0275-06	Soil	04/24/09 13:40	04/24/09 16:50
Area1-E4-14	BSD0275-07	Soil	04/24/09 13:50	04/24/09 16:50
Area1-E5-14	BSD0275-08	Soil	04/24/09 14:00	04/24/09 16:50
DUP-10	BSD0275-09	Soil	04/24/09 15:15	04/24/09 16:50

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/27/09 14:32
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-01 (Area1-B4-14)		Soil		Sampled: 04/24/09 11:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.42	1.55	5.55	mg/kg dry	1x	9D24031	04/24/09 17:24	04/25/09 17:46	J
Surrogate(s): 4-BFB (FID)			120%		75 - 140 %	"			"	
BSD0275-02 (Area1-B5-14)		Soil		Sampled: 04/24/09 11:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	5.06	1.83	6.54	mg/kg dry	1x	9D24031	04/24/09 17:24	04/25/09 18:18	J
Surrogate(s): 4-BFB (FID)			109%		75 - 140 %	"			"	
BSD0275-03 (Area1-C4-14)		Soil		Sampled: 04/24/09 11:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.44	1.53	5.45	mg/kg dry	1x	9D24031	04/24/09 17:24	04/25/09 19:22	J
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	"			"	
BSD0275-04 (Area1-C5-14)		Soil		Sampled: 04/24/09 11:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	351	3.04	10.9	mg/kg dry	1x	9D24031	04/24/09 17:24	04/25/09 23:06	
Surrogate(s): 4-BFB (FID)			222%		75 - 140 %	"			"	ZX
BSD0275-05 (Area1-D4-14)		Soil		Sampled: 04/24/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.92	1.30	4.63	mg/kg dry	1x	9D24031	04/24/09 17:24	04/25/09 19:54	J
Surrogate(s): 4-BFB (FID)			120%		75 - 140 %	"			"	
BSD0275-06 (Area1-D5-14)		Soil		Sampled: 04/24/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	1080	17.3	62.0	mg/kg dry	10x	9D24031	04/24/09 17:24	04/25/09 23:38	
Surrogate(s): 4-BFB (FID)			153%		75 - 140 %	1x			"	ZX
BSD0275-07 (Area1-E4-14)		Soil		Sampled: 04/24/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	1.92	1.49	5.31	mg/kg dry	1x	9D24031	04/24/09 17:24	04/25/09 20:26	J
Surrogate(s): 4-BFB (FID)			119%		75 - 140 %	"			"	
BSD0275-08 (Area1-E5-14)		Soil		Sampled: 04/24/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	4.37	15.6	mg/kg dry	1x	9D24031	04/24/09 17:24	04/25/09 20:58	
Surrogate(s): 4-BFB (FID)			141%		75 - 140 %	"			"	ZX

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/27/09 14:32

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-09 (DUP-10)										
		Soil					Sampled: 04/24/09 15:15			
Gasoline Range Hydrocarbons	NWTPH-Gx	838	16.2	57.7	mg/kg dry	10x	9D24031	04/24/09 17:24	04/26/09 00:10	
Surrogate(s): 4-BFB (FID)			146%		75 - 140 %	1x				" ZX

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/27/09 14:32

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-01 (Area1-B4-14)		Soil			Sampled: 04/24/09 11:00					
Lube Oil	NWTPH-Dx	46.2	----	29.8	mg/kg dry	1x	9D24015	04/24/09 15:30	04/24/09 21:22	Q1
Kerosene	"	32.5	----	11.9	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	76.3	----	11.9	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>			92.9%		54 - 148 %	"				
<i>Octacosane</i>			104%		62 - 142 %	"				
BSD0275-02 (Area1-B5-14)		Soil			Sampled: 04/24/09 11:10					
Lube Oil	NWTPH-Dx	ND	----	28.4	mg/kg dry	1x	9D24015	04/24/09 15:30	04/24/09 21:46	
Kerosene	"	ND	----	11.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.8%		54 - 148 %	"				
<i>Octacosane</i>			105%		62 - 142 %	"				
BSD0275-03 (Area1-C4-14)		Soil			Sampled: 04/24/09 11:20					
Lube Oil	NWTPH-Dx	ND	----	30.8	mg/kg dry	1x	9D24015	04/24/09 15:30	04/24/09 22:09	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			99.6%		54 - 148 %	"				
<i>Octacosane</i>			110%		62 - 142 %	"				
BSD0275-04 (Area1-C5-14)		Soil			Sampled: 04/24/09 11:30					
Lube Oil	NWTPH-Dx	48.1	----	43.2	mg/kg dry	1x	9D24015	04/24/09 15:30	04/24/09 22:33	Q1
Kerosene	"	ND	----	17.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	17.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.7%		54 - 148 %	"				
<i>Octacosane</i>			105%		62 - 142 %	"				
BSD0275-05 (Area1-D4-14)		Soil			Sampled: 04/24/09 13:30					
Lube Oil	NWTPH-Dx	ND	----	29.2	mg/kg dry	1x	9D24015	04/24/09 15:30	04/24/09 22:56	
Kerosene	"	ND	----	11.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.0%		54 - 148 %	"				
<i>Octacosane</i>			107%		62 - 142 %	"				

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/27/09 14:32
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-06 (Area1-D5-14)		Soil			Sampled: 04/24/09 13:40					
Lube Oil	NWTPH-Dx	38.1	----	30.6	mg/kg dry	1x	9D24015	04/24/09 15:30	04/25/09 00:54	Q1
Kerosene	"	25.7	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	23.1	----	12.3	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>			90.4%		54 - 148 %	"			"	
<i>Octacosane</i>			105%		62 - 142 %	"			"	
BSD0275-07 (Area1-E4-14)		Soil			Sampled: 04/24/09 13:50					
Lube Oil	NWTPH-Dx	ND	----	30.0	mg/kg dry	1x	9D24015	04/24/09 15:30	04/25/09 01:18	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.3%		54 - 148 %	"			"	
<i>Octacosane</i>			109%		62 - 142 %	"			"	
BSD0275-08 (Area1-E5-14)		Soil			Sampled: 04/24/09 14:00					
Lube Oil	NWTPH-Dx	ND	----	48.4	mg/kg dry	1x	9D24015	04/24/09 15:30	04/25/09 01:41	
Kerosene	"	ND	----	19.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	19.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.4%		54 - 148 %	"			"	
<i>Octacosane</i>			104%		62 - 142 %	"			"	
BSD0275-09 (DUP-10)		Soil			Sampled: 04/24/09 15:15					
Lube Oil	NWTPH-Dx	34.4	----	30.7	mg/kg dry	1x	9D24015	04/24/09 15:30	04/25/09 02:04	Q1
Kerosene	"	26.4	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	20.3	----	12.3	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>			94.5%		54 - 148 %	"			"	
<i>Octacosane</i>			107%		62 - 142 %	"			"	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/27/09 14:32

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-01 (Area1-B4-14)		Soil		Sampled: 04/24/09 11:00						
Lead	EPA 6020	5.72	----	0.438	mg/kg dry	1x	9D27008	04/27/09 06:11	04/27/09 08:19	R3
BSD0275-02 (Area1-B5-14)		Soil		Sampled: 04/24/09 11:10						
Lead	EPA 6020	3.26	----	0.375	mg/kg dry	1x	9D27008	04/27/09 06:11	04/27/09 08:26	
BSD0275-03 (Area1-C4-14)		Soil		Sampled: 04/24/09 11:20						
Lead	EPA 6020	4.36	----	0.385	mg/kg dry	1x	9D27008	04/27/09 06:11	04/27/09 08:51	
BSD0275-04 (Area1-C5-14)		Soil		Sampled: 04/24/09 11:30						
Lead	EPA 6020	39.5	----	0.353	mg/kg dry	1x	9D27008	04/27/09 06:11	04/27/09 08:57	
BSD0275-05 (Area1-D4-14)		Soil		Sampled: 04/24/09 13:30						
Lead	EPA 6020	3.20	----	0.294	mg/kg dry	1x	9D27008	04/27/09 06:11	04/27/09 09:03	
BSD0275-06 (Area1-D5-14)		Soil		Sampled: 04/24/09 13:40						
Lead	EPA 6020	17.9	----	0.417	mg/kg dry	1x	9D27008	04/27/09 06:11	04/27/09 09:10	
BSD0275-07 (Area1-E4-14)		Soil		Sampled: 04/24/09 13:50						
Lead	EPA 6020	2.30	----	0.328	mg/kg dry	1x	9D27008	04/27/09 06:11	04/27/09 09:16	
BSD0275-08 (Area1-E5-14)		Soil		Sampled: 04/24/09 14:00						
Lead	EPA 6020	19.4	----	0.589	mg/kg dry	1x	9D27008	04/27/09 06:11	04/27/09 09:22	
BSD0275-09 (DUP-10)		Soil		Sampled: 04/24/09 15:15						
Lead	EPA 6020	18.6	----	0.386	mg/kg dry	1x	9D27008	04/27/09 06:11	04/27/09 09:29	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 04/27/09 14:32

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-01 (Area1-B4-14)		Soil		Sampled: 04/24/09 11:00						P13
Benzene	EPA 8260B	0.0307	----	0.000903	mg/kg dry	1x	9D24025	04/24/09 16:15	04/24/09 18:31	
Ethylbenzene	"	ND	----	0.00241	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000602	"	"	"	"	"	
Naphthalene	"	ND	----	0.00602	"	"	"	"	"	
Toluene	"	ND	----	0.000903	"	"	"	"	"	
o-Xylene	"	ND	----	0.00301	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00301	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00602	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			122%		70 - 140 %	"				"
<i>Toluene-d8</i>			94.9%		70 - 130 %	"				"
<i>4-BFB</i>			102%		70 - 130 %	"				"
BSD0275-02 (Area1-B5-14)		Soil		Sampled: 04/24/09 11:10						
Benzene	EPA 8260B	0.0166	----	0.000879	mg/kg dry	1x	9D24025	04/24/09 16:15	04/24/09 18:57	
Ethylbenzene	"	ND	----	0.00234	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000586	"	"	"	"	"	
Naphthalene	"	ND	----	0.00586	"	"	"	"	"	
Toluene	"	ND	----	0.000879	"	"	"	"	"	
o-Xylene	"	ND	----	0.00293	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00293	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00586	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			119%		70 - 140 %	"				"
<i>Toluene-d8</i>			99.7%		70 - 130 %	"				"
<i>4-BFB</i>			108%		70 - 130 %	"				"
BSD0275-03 (Area1-C4-14)		Soil		Sampled: 04/24/09 11:20						P13
Benzene	EPA 8260B	0.00354	----	0.000618	mg/kg dry	1x	9D24025	04/24/09 16:15	04/24/09 19:22	
Ethylbenzene	"	ND	----	0.00165	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000412	"	"	"	"	"	
Naphthalene	"	ND	----	0.00412	"	"	"	"	"	
Toluene	"	ND	----	0.000618	"	"	"	"	"	
o-Xylene	"	ND	----	0.00206	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00206	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00412	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			123%		70 - 140 %	"				"
<i>Toluene-d8</i>			95.3%		70 - 130 %	"				"
<i>4-BFB</i>			102%		70 - 130 %	"				"

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/27/09 14:32

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-04 (Area1-C5-14)		Soil		Sampled: 04/24/09 11:30						P13
Benzene	EPA 8260B	0.0225	----	0.000973	mg/kg dry	1x	9D24025	04/24/09 16:15	04/24/09 19:48	
Methyl tert-butyl ether	"	ND	----	0.000649	"	"	"	"	"	
Naphthalene	"	0.0646	----	0.00649	"	"	"	"	"	
Toluene	"	0.00115	----	0.000973	"	"	"	"	"	
o-Xylene	"	ND	----	0.00324	"	"	"	"	"	
m,p-Xylene	"	0.00473	----	0.00324	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00649	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>138%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>105%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>101%</i>	<i>70 - 130 %</i>						
BSD0275-05 (Area1-D4-14)		Soil		Sampled: 04/24/09 13:30						P13
Benzene	EPA 8260B	ND	----	0.000770	mg/kg dry	1x	9D24025	04/24/09 16:15	04/24/09 20:13	
Ethylbenzene	"	ND	----	0.00205	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000513	"	"	"	"	"	
Naphthalene	"	ND	----	0.00513	"	"	"	"	"	
Toluene	"	ND	----	0.000770	"	"	"	"	"	
o-Xylene	"	ND	----	0.00257	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00257	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00513	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>122%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>96.8%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>102%</i>	<i>70 - 130 %</i>						
BSD0275-06 (Area1-D5-14)		Soil		Sampled: 04/24/09 13:40						P13
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000572	mg/kg dry	1x	9D24025	04/24/09 16:15	04/24/09 20:39	
Toluene	"	0.0409	----	0.000858	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>98.9%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>133%</i>	<i>70 - 130 %</i>						ZX
<i>4-BFB</i>			<i>137%</i>	<i>70 - 130 %</i>						ZX, I

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/27/09 14:32
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-07 (Area1-E4-14)		Soil			Sampled: 04/24/09 13:50					P13
Benzene	EPA 8260B	0.0381	----	0.000626	mg/kg dry	1x	9D24025	04/24/09 16:15	04/24/09 21:04	
Methyl tert-butyl ether	"	ND	----	0.000418	"	"	"	"	"	
Toluene	"	ND	----	0.000626	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>120%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>98.5%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>101%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

BSD0275-08RE1 (Area1-E5-14)		Soil			Sampled: 04/24/09 14:00					P13
Benzene	EPA 8260B	ND	----	0.00144	mg/kg dry	1x	9D24025	04/24/09 16:15	04/25/09 00:53	
Ethylbenzene	"	ND	----	0.00383	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000958	"	"	"	"	"	
Naphthalene	"	0.0133	----	0.00958	"	"	"	"	"	
Toluene	"	ND	----	0.00144	"	"	"	"	"	
o-Xylene	"	ND	----	0.00479	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00479	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00958	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>119%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>99.8%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>101%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

BSD0275-09RE1 (DUP-10)		Soil			Sampled: 04/24/09 15:15					
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000649	mg/kg dry	1x	9D24025	04/24/09 16:15	04/25/09 01:19	
Toluene	"	0.0241	----	0.000973	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>101%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>121%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>120%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/27/09 14:32

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-04 (Area1-C5-14)		Soil			Sampled: 04/24/09 11:30					
Ethylbenzene	EPA 8260B	3.10	0.0260	0.217	mg/kg dry	1x	9D24023	04/24/09 16:00	04/24/09 19:59	
Surrogate(s): 1,2-DCA-d4			99.2%		75 - 125 %	"				"
Toluene-d8			84.2%		75 - 125 %	"				"
4-BFB			92.6%		75 - 125 %	"				"
BSD0275-06 (Area1-D5-14)		Soil			Sampled: 04/24/09 13:40					
Benzene	EPA 8260B	0.419	0.0124	0.0248	mg/kg dry	1x	9D24023	04/24/09 16:00	04/24/09 20:53	
Ethylbenzene	"	4.93	0.0149	0.124	"	"	"	"	"	
Naphthalene	"	3.75	1.36	2.48	"	"	"	"	"	
o-Xylene	"	0.683	0.0211	0.124	"	"	"	"	"	
m,p-Xylene	"	4.62	0.0260	0.248	"	"	"	"	"	
Xylenes (total)	"	5.31	0.0384	0.372	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			99.2%		75 - 125 %	"				"
Toluene-d8			88.0%		75 - 125 %	"				"
4-BFB			92.5%		75 - 125 %	"				"
BSD0275-07 (Area1-E4-14)		Soil			Sampled: 04/24/09 13:50					
Ethylbenzene	EPA 8260B	0.0319	0.0128	0.106	mg/kg dry	1x	9D24023	04/24/09 16:00	04/24/09 21:20	J
Naphthalene	"	ND	1.17	2.13	"	"	"	"	"	
o-Xylene	"	ND	0.0181	0.106	"	"	"	"	"	
m,p-Xylene	"	0.0298	0.0223	0.213	"	"	"	"	"	J
Xylenes (total)	"	ND	0.0329	0.319	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			82.4%		75 - 125 %	"				"
Toluene-d8			94.0%		75 - 125 %	"				"
4-BFB			103%		75 - 125 %	"				"
BSD0275-09 (DUP-10)		Soil			Sampled: 04/24/09 15:15					
Benzene	EPA 8260B	0.505	0.0115	0.0231	mg/kg dry	1x	9D24023	04/24/09 16:00	04/24/09 22:13	
Ethylbenzene	"	4.99	0.0139	0.115	"	"	"	"	"	
Naphthalene	"	3.27	1.27	2.31	"	"	"	"	"	
o-Xylene	"	0.629	0.0196	0.115	"	"	"	"	"	
m,p-Xylene	"	4.48	0.0242	0.231	"	"	"	"	"	
Xylenes (total)	"	5.11	0.0358	0.346	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			96.7%		75 - 125 %	"				"
Toluene-d8			98.1%		75 - 125 %	"				"
4-BFB			104%		75 - 125 %	"				"

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/27/09 14:32

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0275-01 (Area1-B4-14)		Soil								Sampled: 04/24/09 11:00
Dry Weight	BSOPSPL003R0 8	82.8	----	1.00	%	1x	9D24016	04/24/09 15:30	04/27/09 00:00	
BSD0275-02 (Area1-B5-14)		Soil								Sampled: 04/24/09 11:10
Dry Weight	BSOPSPL003R0 8	86.5	----	1.00	%	1x	9D24016	04/24/09 15:30	04/27/09 00:00	
BSD0275-03 (Area1-C4-14)		Soil								Sampled: 04/24/09 11:20
Dry Weight	BSOPSPL003R0 8	80.3	----	1.00	%	1x	9D24016	04/24/09 15:30	04/27/09 00:00	
BSD0275-04 (Area1-C5-14)		Soil								Sampled: 04/24/09 11:30
Dry Weight	BSOPSPL003R0 8	57.3	----	1.00	%	1x	9D24016	04/24/09 15:30	04/27/09 00:00	
BSD0275-05 (Area1-D4-14)		Soil								Sampled: 04/24/09 13:30
Dry Weight	BSOPSPL003R0 8	85.1	----	1.00	%	1x	9D24016	04/24/09 15:30	04/27/09 00:00	
BSD0275-06 (Area1-D5-14)		Soil								Sampled: 04/24/09 13:40
Dry Weight	BSOPSPL003R0 8	80.6	----	1.00	%	1x	9D24016	04/24/09 15:30	04/27/09 00:00	
BSD0275-07 (Area1-E4-14)		Soil								Sampled: 04/24/09 13:50
Dry Weight	BSOPSPL003R0 8	81.9	----	1.00	%	1x	9D24016	04/24/09 15:30	04/27/09 00:00	
BSD0275-08 (Area1-E5-14)		Soil								Sampled: 04/24/09 14:00
Dry Weight	BSOPSPL003R0 8	50.8	----	1.00	%	1x	9D24016	04/24/09 15:30	04/27/09 00:00	
BSD0275-09 (DUP-10)		Soil								Sampled: 04/24/09 15:15
Dry Weight	BSOPSPL003R0 8	80.9	----	1.00	%	1x	9D24016	04/24/09 15:30	04/27/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/27/09 14:32
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D24031 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D24031-BLK1)

Extracted: 04/24/09 17:24

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/25/09 16:42	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.7%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/25/09 16:42</i>	

LCS (9D24031-BS1)

Extracted: 04/24/09 17:24

Gasoline Range Hydrocarbons	NWTPH-Gx	52.7	1.40	5.00	mg/kg wet	1x	--	50.0	105%	(80-120)	--	--	04/25/09 17:14	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 106%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/25/09 17:14</i>	

Duplicate (9D24031-DUP1)

QC Source: BSD0275-02

Extracted: 04/24/09 17:24

Gasoline Range Hydrocarbons	NWTPH-Gx	4.84	1.83	6.54	mg/kg dry	1x	5.06	--	--	--	4.35% (40)	--	04/25/09 18:50	J
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 109%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/25/09 18:50</i>	

Matrix Spike (9D24031-MS1)

QC Source: BSD0275-02

Extracted: 04/24/09 17:24

Gasoline Range Hydrocarbons	NWTPH-Gx	72.1	1.83	6.54	mg/kg dry	1x	5.06	57.6	116%	(75-130)	--	--	04/25/09 21:30	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 116%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>04/25/09 21:30</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/27/09 14:32
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D24015 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D24015-BLK1)

Extracted: 04/24/09 15:30

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/24/09 19:24	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 89.8%</i>		<i>Limits: 54-148%</i>		<i>"</i>							<i>04/24/09 19:24</i>	
<i>Octacosane</i>		<i>99.1%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D24015-BS1)

Extracted: 04/24/09 15:30

Lube Oil	NWTPH-Dx	59.4	---	25.0	mg/kg wet	1x	--	66.7	89.0%	(63-125)	--	--	04/24/09 19:48	
Diesel Range Hydrocarbons	"	66.1	---	10.0	"	"	--	"	99.2%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 92.0%</i>		<i>Limits: 54-148%</i>		<i>"</i>							<i>04/24/09 19:48</i>	
<i>Octacosane</i>		<i>104%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D24015-DUP1)

QC Source: BSD0275-07

Extracted: 04/24/09 15:30

Lube Oil	NWTPH-Dx	ND	---	30.1	mg/kg dry	1x	ND	--	--	--	(50)	--	04/24/09 20:11	R4
Kerosene	"	ND	---	12.0	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.0	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 94.1%</i>		<i>Limits: 54-148%</i>		<i>"</i>							<i>04/24/09 20:11</i>	
<i>Octacosane</i>		<i>106%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D24015-MS1)

QC Source: BSD0275-07

Extracted: 04/24/09 15:30

Lube Oil	NWTPH-Dx	70.5	---	30.2	mg/kg dry	1x	ND	80.6	87.5%	(26-150)	--	--	04/24/09 20:35	
Diesel Range Hydrocarbons	"	76.1	---	12.1	"	"	ND	"	94.4%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 87.8%</i>		<i>Limits: 54-148%</i>		<i>"</i>							<i>04/24/09 20:35</i>	
<i>Octacosane</i>		<i>101%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D27008 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D27008-BLK1)								Extracted: 04/27/09 06:11						
Lead	EPA 6020	ND	---	0.463	mg/kg wet	1x	--	--	--	--	--	--	04/27/09 07:48	
LCS (9D27008-BS1)								Extracted: 04/27/09 06:11						
Lead	EPA 6020	36.0	---	0.459	mg/kg wet	1x	--	36.7	98.0%	(80-120)	--	--	04/27/09 07:54	
Duplicate (9D27008-DUP1)				QC Source: BSD0275-01				Extracted: 04/27/09 06:11						
Lead	EPA 6020	7.95	---	0.417	mg/kg dry	1x	5.72	--	--	--	32.6% (20)	--	04/27/09 08:13	R3
Matrix Spike (9D27008-MS1)				QC Source: BSD0275-01				Extracted: 04/27/09 06:11						
Lead	EPA 6020	39.4	---	0.408	mg/kg dry	1x	5.72	32.7	103%	(75-125)	--	--	04/27/09 08:07	
Post Spike (9D27008-PS1)				QC Source: BSD0275-01				Extracted: 04/27/09 06:11						
Lead	EPA 6020	0.113	---		ug/ml	1x	0.0131	0.100	99.3%	(80-120)	--	--	04/27/09 08:01	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D24025 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D24025-BLK1)													Extracted: 04/24/09 15:30	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/24/09 18:06	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>123%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/24/09 18:06</i>	
<i>Toluene-d8</i>			<i>93.3%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>103%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9D24025-BS1)													Extracted: 04/24/09 15:30	
Benzene	EPA 8260B	0.0456	---	0.00150	mg/kg wet	1x	--	0.0500	91.3%	(70-125)	--	--	04/24/09 17:15	
Ethylbenzene	"	0.0466	---	0.00400	"	"	--	"	93.3%	"	--	--	"	
Methyl tert-butyl ether	"	0.0442	---	0.00100	"	"	--	"	88.4%	(70-130)	--	--	"	
Naphthalene	"	0.0418	---	0.0100	"	"	--	"	83.5%	"	--	--	"	
Toluene	"	0.0448	---	0.00150	"	"	--	"	89.5%	(70-125)	--	--	"	
Total Xylenes	"	0.140	---	0.0100	"	"	--	0.150	93.6%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>98.1%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/24/09 17:15</i>	
<i>Toluene-d8</i>			<i>97.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D24025-BSD1)													Extracted: 04/24/09 15:30	
Benzene	EPA 8260B	0.0486	---	0.00150	mg/kg wet	1x	--	0.0500	97.2%	(70-125)	6.26% (30)		04/24/09 17:41	
Ethylbenzene	"	0.0473	---	0.00400	"	"	--	"	94.6%	"	1.43%	"	"	
Methyl tert-butyl ether	"	0.0504	---	0.00100	"	"	--	"	101%	(70-130)	13.2%	"	"	
Naphthalene	"	0.0463	---	0.0100	"	"	--	"	92.6%	"	10.2%	"	"	
Toluene	"	0.0445	---	0.00150	"	"	--	"	89.0%	(70-125)	0.515%	"	"	
Total Xylenes	"	0.143	---	0.0100	"	"	--	0.150	95.6%	(70-130)	2.07%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/24/09 17:41</i>	
<i>Toluene-d8</i>			<i>95.0%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D24023 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D24023-BLK1)

Extracted: 04/24/09 16:00

Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/24/09 18:08	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>93.0%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>							<i>04/24/09 18:08</i>	
<i>Toluene-d8</i>			<i>91.4%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>93.8%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

LCS (9D24023-BS1)

Extracted: 04/24/09 16:00

Benzene	EPA 8260B	3.76	0.0100	0.0200	mg/kg wet	1x	--	4.00	93.9%	(75-125)	--	--	04/24/09 16:43	
Ethylbenzene	"	3.70	0.0120	0.100	"	"	--	"	92.6%	"	--	--	"	
Methyl tert-butyl ether	"	4.33	0.0100	0.0500	"	"	--	"	108%	"	--	--	"	
Naphthalene	"	3.47	1.10	2.00	"	"	--	"	86.8%	(60-140)	--	--	"	
Toluene	"	3.52	0.0100	0.100	"	"	--	"	87.9%	(75-125)	--	--	"	
o-Xylene	"	3.68	0.0170	0.100	"	"	--	"	92.0%	"	--	--	"	
m,p-Xylene	"	7.38	0.0210	0.200	"	"	--	8.00	92.3%	"	--	--	"	
Xylenes (total)	"	11.1	0.0310	0.300	"	"	--	12.0	92.2%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>94.1%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>							<i>04/24/09 16:43</i>	
<i>Toluene-d8</i>			<i>86.8%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>91.4%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

LCS Dup (9D24023-BSD1)

Extracted: 04/24/09 16:00

Benzene	EPA 8260B	3.94	0.0100	0.0200	mg/kg wet	1x	--	4.00	98.6%	(75-125)	4.83% (20)		04/24/09 17:10	
Ethylbenzene	"	3.69	0.0120	0.100	"	"	--	"	92.2%	"	0.352%	"	"	
Methyl tert-butyl ether	"	4.59	0.0100	0.0500	"	"	--	"	115%	"	5.97%	"	"	
Naphthalene	"	3.64	1.10	2.00	"	"	--	"	91.0%	(60-140)	4.67%	"	"	
Toluene	"	3.60	0.0100	0.100	"	"	--	"	90.0%	(75-125)	2.36%	"	"	
o-Xylene	"	3.62	0.0170	0.100	"	"	--	"	90.5%	"	1.62%	"	"	
m,p-Xylene	"	7.32	0.0210	0.200	"	"	--	8.00	91.5%	"	0.816%	"	"	
Xylenes (total)	"	10.9	0.0310	0.300	"	"	--	12.0	91.2%	"	1.08%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>95.4%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>							<i>04/24/09 17:10</i>	
<i>Toluene-d8</i>			<i>87.4%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>95.2%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D24016 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D24016-BLK1)										Extracted: 04/24/09 12:16				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/27/09 00:00	

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/27/09 14:32

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/27/09 14:32

Notes and Definitions

Report Specific Notes:

- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/24/09

Date: 4/24

Date: 4/24

Work Order No. 1200275

Time: 1645

Time: 11:55

Time: 17:40

Client: _____

Initials: EL

Initials: EL

Initials: EL

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container _____ Sign By

____ Bubble Bags _____ Styrofoam

____ Box

____ On Bottles _____ Date

Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 2.0 or NA comments _____

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N _____

Adequate Volume? or N _____
(for tests requested)

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 29, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/27/09 15:50.
The following list is a summary of the Work Orders contained in this report, generated on 04/29/09
09:47.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0286	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/29/09 09:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-F4-14	BSD0286-01	Soil	04/27/09 14:10	04/27/09 15:50
Area1-F5-14	BSD0286-02	Soil	04/27/09 14:20	04/27/09 15:50
Area1-G4-14	BSD0286-03	Soil	04/27/09 14:30	04/27/09 15:50
Area1-G5-14	BSD0286-04	Soil	04/27/09 14:40	04/27/09 15:50
Area1-H4-14	BSD0286-05	Soil	04/27/09 14:50	04/27/09 15:50
Area1-H5-14	BSD0286-06	Soil	04/27/09 15:00	04/27/09 15:50
DUP-11	BSD0286-07	Soil	04/27/09 15:30	04/27/09 15:50

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/29/09 09:47
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0286-01 (Area1-F4-14)		Soil		Sampled: 04/27/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.58	5.65	mg/kg dry	1x	9D24010	04/27/09 17:00	04/27/09 17:59	
Surrogate(s): 4-BFB (FID)			116%		75 - 140 %	"				"
BSD0286-02 (Area1-F5-14)		Soil		Sampled: 04/27/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.60	5.70	mg/kg dry	1x	9D24010	04/27/09 17:00	04/27/09 18:31	
Surrogate(s): 4-BFB (FID)			116%		75 - 140 %	"				"
BSD0286-03 (Area1-G4-14)		Soil		Sampled: 04/27/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.58	5.64	mg/kg dry	1x	9D24010	04/27/09 17:00	04/27/09 19:03	
Surrogate(s): 4-BFB (FID)			114%		75 - 140 %	"				"
BSD0286-04 (Area1-G5-14)		Soil		Sampled: 04/27/09 14:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	6.25	1.56	5.56	mg/kg dry	1x	9D24010	04/27/09 17:00	04/27/09 19:36	
Surrogate(s): 4-BFB (FID)			124%		75 - 140 %	"				"
BSD0286-05 (Area1-H4-14)		Soil		Sampled: 04/27/09 14:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.18	7.79	mg/kg dry	1x	9D24010	04/27/09 17:00	04/27/09 20:08	
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	"				"
BSD0286-06 (Area1-H5-14)		Soil		Sampled: 04/27/09 15:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	78.4	2.42	8.64	mg/kg dry	1x	9D24010	04/27/09 17:00	04/27/09 21:12	
Surrogate(s): 4-BFB (FID)			182%		75 - 140 %	"				ZX
BSD0286-07 (DUP-11)		Soil		Sampled: 04/27/09 15:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	81.8	2.40	8.58	mg/kg dry	1x	9D24010	04/27/09 17:00	04/27/09 20:40	
Surrogate(s): 4-BFB (FID)			176%		75 - 140 %	"				ZX

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/29/09 09:47

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0286-01 (Area1-F4-14)		Soil		Sampled: 04/27/09 14:10						
Lube Oil	NWTPH-Dx	ND	----	29.6	mg/kg dry	1x	9D27063	04/27/09 16:57	04/27/09 22:30	
Kerosene	"	ND	----	11.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.6%		54 - 148 %	"				"
<i>Octacosane</i>			100%		62 - 142 %	"				"
BSD0286-02 (Area1-F5-14)		Soil		Sampled: 04/27/09 14:20						
Lube Oil	NWTPH-Dx	ND	----	30.1	mg/kg dry	1x	9D27063	04/27/09 16:57	04/27/09 22:53	
Kerosene	"	ND	----	12.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			99.5%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"
BSD0286-03 (Area1-G4-14)		Soil		Sampled: 04/27/09 14:30						
Lube Oil	NWTPH-Dx	ND	----	29.5	mg/kg dry	1x	9D27063	04/27/09 16:57	04/27/09 23:17	R4
Kerosene	"	ND	----	11.8	"	"	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	----	11.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			99.8%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"
BSD0286-04 (Area1-G5-14)		Soil		Sampled: 04/27/09 14:40						
Lube Oil	NWTPH-Dx	ND	----	29.4	mg/kg dry	1x	9D27063	04/27/09 16:57	04/27/09 23:40	
Kerosene	"	ND	----	11.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.3%		54 - 148 %	"				"
<i>Octacosane</i>			105%		62 - 142 %	"				"
BSD0286-05 (Area1-H4-14)		Soil		Sampled: 04/27/09 14:50						
Lube Oil	NWTPH-Dx	ND	----	34.0	mg/kg dry	1x	9D27063	04/27/09 16:57	04/28/09 00:04	
Kerosene	"	ND	----	13.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.1%		54 - 148 %	"				"
<i>Octacosane</i>			100%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/29/09 09:47
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0286-06RE1 (Area1-H5-14)		Soil		Sampled: 04/27/09 15:00						
Lube Oil	NWTPH-Dx	99.6	----	36.5	mg/kg dry	1x	9D27063	04/27/09 16:57	04/28/09 16:42	Q1
Kerosene	"	23.7	----	14.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	64.1	----	14.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			93.7%		54 - 148 %	"			"	
<i>Octacosane</i>			104%		62 - 142 %	"			"	
BSD0286-07 (DUP-11)		Soil		Sampled: 04/27/09 15:30						
Lube Oil	NWTPH-Dx	117	----	36.2	mg/kg dry	1x	9D27063	04/27/09 16:57	04/28/09 02:25	Q1
Kerosene	"	37.8	----	14.5	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	101	----	14.5	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>			96.6%		54 - 148 %	"			"	
<i>Octacosane</i>			107%		62 - 142 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/29/09 09:47

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0286-01 (Area1-F4-14)		Soil			Sampled: 04/27/09 14:10					
Lead	EPA 6020	3.13	----	0.579	mg/kg dry	1x	9D28002	04/28/09 06:46	04/28/09 08:51	
BSD0286-02 (Area1-F5-14)		Soil			Sampled: 04/27/09 14:20					
Lead	EPA 6020	4.02	----	0.625	mg/kg dry	1x	9D28002	04/28/09 06:46	04/28/09 08:57	
BSD0286-03 (Area1-G4-14)		Soil			Sampled: 04/27/09 14:30					
Lead	EPA 6020	3.60	----	0.582	mg/kg dry	1x	9D28002	04/28/09 06:46	04/28/09 09:22	
BSD0286-04 (Area1-G5-14)		Soil			Sampled: 04/27/09 14:40					
Lead	EPA 6020	5.08	----	0.608	mg/kg dry	1x	9D28002	04/28/09 06:46	04/28/09 09:29	
BSD0286-05 (Area1-H4-14)		Soil			Sampled: 04/27/09 14:50					
Lead	EPA 6020	6.86	----	0.715	mg/kg dry	1x	9D28002	04/28/09 06:46	04/28/09 09:35	
BSD0286-06 (Area1-H5-14)		Soil			Sampled: 04/27/09 15:00					
Lead	EPA 6020	33.1	----	0.738	mg/kg dry	1x	9D28002	04/28/09 06:46	04/28/09 09:41	
BSD0286-07 (DUP-11)		Soil			Sampled: 04/27/09 15:30					
Lead	EPA 6020	34.9	----	0.714	mg/kg dry	1x	9D28002	04/28/09 06:46	04/28/09 09:48	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/29/09 09:47
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0286-01 (Area1-F4-14)		Soil			Sampled: 04/27/09 14:10					
Benzene	EPA 8260B	0.0191	----	0.000926	mg/kg dry	1x	9D27048	04/27/09 16:00	04/27/09 17:21	
Ethylbenzene	"	0.00927	----	0.00247	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000617	"	"	"	"	"	
Naphthalene	"	0.0144	----	0.00617	"	"	"	"	"	
Toluene	"	ND	----	0.000926	"	"	"	"	"	
o-Xylene	"	ND	----	0.00309	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00309	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00617	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		121%		70 - 140 %	"				"
	Toluene-d8		96.2%		70 - 130 %	"				"
	4-BFB		105%		70 - 130 %	"				"

BSD0286-02 (Area1-F5-14)		Soil			Sampled: 04/27/09 14:20					
Benzene	EPA 8260B	0.00182	----	0.00104	mg/kg dry	1x	9D27048	04/27/09 16:00	04/27/09 17:47	
Ethylbenzene	"	ND	----	0.00276	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000690	"	"	"	"	"	
Naphthalene	"	ND	----	0.00690	"	"	"	"	"	
Toluene	"	ND	----	0.00104	"	"	"	"	"	
o-Xylene	"	ND	----	0.00345	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00345	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00690	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		108%		70 - 140 %	"				"
	Toluene-d8		99.5%		70 - 130 %	"				"
	4-BFB		106%		70 - 130 %	"				"

BSD0286-03 (Area1-G4-14)		Soil			Sampled: 04/27/09 14:30					
Benzene	EPA 8260B	ND	----	0.000935	mg/kg dry	1x	9D27048	04/27/09 16:00	04/27/09 18:12	
Ethylbenzene	"	ND	----	0.00249	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000624	"	"	"	"	"	
Naphthalene	"	ND	----	0.00624	"	"	"	"	"	
Toluene	"	ND	----	0.000935	"	"	"	"	"	
o-Xylene	"	ND	----	0.00312	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00312	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00624	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		119%		70 - 140 %	"				"
	Toluene-d8		94.5%		70 - 130 %	"				"
	4-BFB		101%		70 - 130 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/29/09 09:47
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0286-04 (Area1-G5-14)		Soil		Sampled: 04/27/09 14:40						
Benzene	EPA 8260B	0.00786	----	0.00105	mg/kg dry	1x	9D27048	04/27/09 16:00	04/27/09 18:38	
Ethylbenzene	"	0.119	----	0.00279	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000698	"	"	"	"	"	
Naphthalene	"	0.0519	----	0.00698	"	"	"	"	"	
Toluene	"	ND	----	0.00105	"	"	"	"	"	
o-Xylene	"	0.00895	----	0.00349	"	"	"	"	"	
m,p-Xylene	"	0.0739	----	0.00349	"	"	"	"	"	
Total Xylenes	"	0.0829	----	0.00698	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				121%		70 - 140 %	"			"
<i>Toluene-d8</i>				96.6%		70 - 130 %	"			"
<i>4-BFB</i>				101%		70 - 130 %	"			"

BSD0286-05 (Area1-H4-14)		Soil		Sampled: 04/27/09 14:50						
Benzene	EPA 8260B	ND	----	0.00129	mg/kg dry	1x	9D27048	04/27/09 16:00	04/27/09 19:03	
Ethylbenzene	"	ND	----	0.00345	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000862	"	"	"	"	"	
Naphthalene	"	ND	----	0.00862	"	"	"	"	"	
Toluene	"	ND	----	0.00129	"	"	"	"	"	
o-Xylene	"	ND	----	0.00431	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00431	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00862	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				121%		70 - 140 %	"			"
<i>Toluene-d8</i>				97.7%		70 - 130 %	"			"
<i>4-BFB</i>				103%		70 - 130 %	"			"

BSD0286-06RE1 (Area1-H5-14)		Soil		Sampled: 04/27/09 15:00						
Benzene	EPA 8260B	0.0493	----	0.00133	mg/kg dry	1x	9D27048	04/27/09 16:00	04/27/09 20:45	
Methyl tert-butyl ether	"	ND	----	0.000887	"	"	"	"	"	
Naphthalene	"	0.107	----	0.00887	"	"	"	"	"	
Toluene	"	0.00630	----	0.00133	"	"	"	"	"	
o-Xylene	"	0.0522	----	0.00443	"	"	"	"	"	
m,p-Xylene	"	0.211	----	0.00443	"	"	"	"	"	
Total Xylenes	"	0.263	----	0.00887	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				112%		70 - 140 %	"			"
<i>Toluene-d8</i>				108%		70 - 130 %	"			"
<i>4-BFB</i>				92.8%		70 - 130 %	"			"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/29/09 09:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0286-07 (DUP-11)										
		Soil					Sampled: 04/27/09 15:30			
Benzene	EPA 8260B	0.0500	----	0.00138	mg/kg dry	1x	9D27048	04/27/09 16:00	04/27/09 19:54	
Methyl tert-butyl ether	"	ND	----	0.000917	"	"	"	"	"	
Naphthalene	"	0.0833	----	0.00917	"	"	"	"	"	
Toluene	"	0.0204	----	0.00138	"	"	"	"	"	
o-Xylene	"	0.0256	----	0.00459	"	"	"	"	"	
m,p-Xylene	"	0.151	----	0.00459	"	"	"	"	"	
Total Xylenes	"	0.177	----	0.00917	"	"	"	"	"	
<i>Surrogate(s):</i>										
	<i>1,2-DCA-d4</i>			<i>124%</i>		<i>70 - 140 %</i>	"			"
	<i>Toluene-d8</i>			<i>112%</i>		<i>70 - 130 %</i>	"			"
	<i>4-BFB</i>			<i>115%</i>		<i>70 - 130 %</i>	"			"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/29/09 09:47
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0286-06 (Area1-H5-14)		Soil			Sampled: 04/27/09 15:00					
Ethylbenzene	EPA 8260B	0.472	0.0207	0.173	mg/kg dry	1x	9D27050	04/27/09 16:41	04/27/09 21:13	
Surrogate(s):	1,2-DCA-d4		94.7%		75 - 125 %	"				"
	Toluene-d8		106%		75 - 125 %	"				"
	4-BFB		101%		75 - 125 %	"				"
BSD0286-07 (DUP-11)		Soil			Sampled: 04/27/09 15:30					
Ethylbenzene	EPA 8260B	0.369	0.0206	0.172	mg/kg dry	1x	9D27050	04/27/09 16:41	04/27/09 21:40	
Surrogate(s):	1,2-DCA-d4		95.7%		75 - 125 %	"				"
	Toluene-d8		103%		75 - 125 %	"				"
	4-BFB		104%		75 - 125 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/29/09 09:47

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0286-01 (Area1-F4-14)		Soil								Sampled: 04/27/09 14:10
Dry Weight	BSOPSP003R0 8	83.1	----	1.00	%	1x	9D27041	04/27/09 15:45	04/28/09 00:00	
BSD0286-02 (Area1-F5-14)		Soil								Sampled: 04/27/09 14:20
Dry Weight	BSOPSP003R0 8	82.4	----	1.00	%	1x	9D27041	04/27/09 15:45	04/28/09 00:00	
BSD0286-03 (Area1-G4-14)		Soil								Sampled: 04/27/09 14:30
Dry Weight	BSOPSP003R0 8	83.4	----	1.00	%	1x	9D27041	04/27/09 15:45	04/28/09 00:00	
BSD0286-04 (Area1-G5-14)		Soil								Sampled: 04/27/09 14:40
Dry Weight	BSOPSP003R0 8	83.9	----	1.00	%	1x	9D27041	04/27/09 15:45	04/28/09 00:00	
BSD0286-05 (Area1-H4-14)		Soil								Sampled: 04/27/09 14:50
Dry Weight	BSOPSP003R0 8	72.9	----	1.00	%	1x	9D27041	04/27/09 15:45	04/28/09 00:00	
BSD0286-06 (Area1-H5-14)		Soil								Sampled: 04/27/09 15:00
Dry Weight	BSOPSP003R0 8	68.4	----	1.00	%	1x	9D27041	04/27/09 15:45	04/28/09 00:00	
BSD0286-07 (DUP-11)		Soil								Sampled: 04/27/09 15:30
Dry Weight	BSOPSP003R0 8	68.0	----	1.00	%	1x	9D27041	04/27/09 15:45	04/28/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D24010 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D24010-BLK1)										Extracted: 04/27/09 11:10				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/27/09 13:40	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.8%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/27/09 13:40</i>
LCS (9D24010-BS1)										Extracted: 04/27/09 11:10				
Gasoline Range Hydrocarbons	NWTPH-Gx	49.3	1.40	5.00	mg/kg wet	1x	--	50.0	98.7%	(80-120)	--	--	04/27/09 14:13	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.1%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/27/09 14:13</i>
Duplicate (9D24010-DUP1)										QC Source: BSD0267-03		Extracted: 04/27/09 11:10		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.41	5.03	mg/kg wet	1x	ND	--	--	--	NR (40)		04/27/09 15:50	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.4%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/27/09 15:50</i>
Matrix Spike (9D24010-MS1)										QC Source: BSD0267-03		Extracted: 04/27/09 11:10		
Gasoline Range Hydrocarbons	NWTPH-Gx	53.2	1.41	5.03	mg/kg wet	1x	ND	50.3	106%	(75-130)	--	--	04/27/09 16:22	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/27/09 16:22</i>

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D27063 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D27063-BLK1)

Extracted: 04/27/09 16:57

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/27/09 20:55	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/27/09 20:55</i>	
<i>Octacosane</i>			<i>102%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D27063-BS1)

Extracted: 04/27/09 16:57

Lube Oil	NWTPH-Dx	64.7	---	25.0	mg/kg wet	1x	--	66.7	97.1%	(63-125)	--	--	04/27/09 21:19	
Diesel Range Hydrocarbons	"	71.0	---	10.0	"	"	--	"	106%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/27/09 21:19</i>	
<i>Octacosane</i>			<i>109%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D27063-DUP1)

QC Source: BSD0286-03

Extracted: 04/27/09 16:57

Lube Oil	NWTPH-Dx	ND	---	29.5	mg/kg dry	1x	ND	--	--	--	(50)	--	04/27/09 21:42	R4
Kerosene	"	ND	---	11.8	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	11.8	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/27/09 21:42</i>	
<i>Octacosane</i>			<i>101%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D27063-MS1)

QC Source: BSD0286-03

Extracted: 04/27/09 16:57

Lube Oil	NWTPH-Dx	72.4	---	29.7	mg/kg dry	1x	ND	79.2	91.4%	(26-150)	--	--	04/27/09 22:06	
Diesel Range Hydrocarbons	"	83.4	---	11.9	"	"	ND	"	105%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/27/09 22:06</i>	
<i>Octacosane</i>			<i>104%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D28002-BLK1)								Extracted: 04/28/09 06:46						
Lead	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	04/28/09 08:20	
LCS (9D28002-BS1)								Extracted: 04/28/09 06:46						
Lead	EPA 6020	39.7	---	0.500	mg/kg wet	1x	--	40.0	99.3%	(80-120)	--	--	04/28/09 08:26	
Duplicate (9D28002-DUP1)				QC Source: BSD0286-01				Extracted: 04/28/09 06:46						
Lead	EPA 6020	3.19	---	0.608	mg/kg dry	1x	3.13	--	--	--	2.11% (20)	--	04/28/09 08:45	
Matrix Spike (9D28002-MS1)				QC Source: BSD0286-01				Extracted: 04/28/09 06:46						
Lead	EPA 6020	51.2	---	0.608	mg/kg dry	1x	3.13	48.6	98.9%	(75-125)	--	--	04/28/09 08:38	
Post Spike (9D28002-PS1)				QC Source: BSD0286-01				Extracted: 04/28/09 06:46						
Lead	EPA 6020	0.109	---		ug/ml	1x	0.00540	0.100	103%	(80-120)	--	--	04/28/09 08:32	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D27048 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D27048-BLK1)													Extracted: 04/27/09 15:23			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/27/09 16:30			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 119%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>04/27/09 16:30</i>
<i>Toluene-d8</i>													<i>95.5%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>103%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9D27048-BS1)													Extracted: 04/27/09 15:23			
Benzene	EPA 8260B	0.0486	---	0.00150	mg/kg wet	1x	--	0.0500	97.1%	(70-125)	--	--	04/27/09 15:39			
Ethylbenzene	"	0.0471	---	0.00400	"	"	--	"	94.3%	"	--	--	"			
Methyl tert-butyl ether	"	0.0556	---	0.00100	"	"	--	"	111%	(70-130)	--	--	"			
Naphthalene	"	0.0487	---	0.0100	"	"	--	"	97.5%	"	--	--	"			
Toluene	"	0.0434	---	0.00150	"	"	--	"	86.9%	(70-125)	--	--	"			
Total Xylenes	"	0.142	---	0.0100	"	"	--	0.150	94.7%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 98.1%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>04/27/09 15:39</i>
<i>Toluene-d8</i>													<i>93.9%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>100%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9D27048-BSD1)													Extracted: 04/27/09 15:23			
Benzene	EPA 8260B	0.0484	---	0.00150	mg/kg wet	1x	--	0.0500	96.8%	(70-125)	0.309% (30)		04/27/09 16:05			
Ethylbenzene	"	0.0482	---	0.00400	"	"	--	"	96.4%	"	2.24%	"	"			
Methyl tert-butyl ether	"	0.0516	---	0.00100	"	"	--	"	103%	(70-130)	7.48%	"	"			
Naphthalene	"	0.0456	---	0.0100	"	"	--	"	91.3%	"	6.53%	"	"			
Toluene	"	0.0450	---	0.00150	"	"	--	"	89.9%	(70-125)	3.44%	"	"			
Total Xylenes	"	0.143	---	0.0100	"	"	--	0.150	95.1%	(70-130)	0.478%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 96.9%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>04/27/09 16:05</i>
<i>Toluene-d8</i>													<i>96.6%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>100%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D27050 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D27050-BLK1)													Extracted: 04/27/09 16:41			
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/27/09 18:32			
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"			
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 88.0%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>04/27/09 18:32</i>
<i>Toluene-d8</i>													<i>108%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>106%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS (9D27050-BS1)													Extracted: 04/27/09 16:41			
Benzene	EPA 8260B	4.88	0.0100	0.0200	mg/kg wet	1x	--	4.00	122%	(75-125)	--	--	04/27/09 17:03			
Ethylbenzene	"	4.55	0.0120	0.100	"	"	--	"	114%	"	--	--	"			
Methyl tert-butyl ether	"	3.72	0.0100	0.0500	"	"	--	"	92.9%	"	--	--	"			
Naphthalene	"	3.71	1.10	2.00	"	"	--	"	92.7%	(60-140)	--	--	"			
Toluene	"	4.73	0.0100	0.100	"	"	--	"	118%	(75-125)	--	--	"			
o-Xylene	"	4.36	0.0170	0.100	"	"	--	"	109%	"	--	--	"			
m,p-Xylene	"	8.84	0.0210	0.200	"	"	--	8.00	110%	"	--	--	"			
Xylenes (total)	"	13.2	0.0310	0.300	"	"	--	12.0	110%	"	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 87.2%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>04/27/09 17:03</i>
<i>Toluene-d8</i>													<i>106%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>104%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS Dup (9D27050-BSD1)													Extracted: 04/27/09 16:41			
Benzene	EPA 8260B	4.32	0.0100	0.0200	mg/kg wet	1x	--	4.00	108%	(75-125)	12.2% (20)	--	04/27/09 17:30			
Ethylbenzene	"	4.00	0.0120	0.100	"	"	--	"	99.9%	"	12.9%	"	"			
Methyl tert-butyl ether	"	3.64	0.0100	0.0500	"	"	--	"	91.0%	"	2.01%	"	"			
Naphthalene	"	3.40	1.10	2.00	"	"	--	"	84.9%	(60-140)	8.81%	"	"			
Toluene	"	4.22	0.0100	0.100	"	"	--	"	105%	(75-125)	11.5%	"	"			
o-Xylene	"	3.81	0.0170	0.100	"	"	--	"	95.2%	"	13.5%	"	"			
m,p-Xylene	"	7.73	0.0210	0.200	"	"	--	8.00	96.6%	"	13.3%	"	"			
Xylenes (total)	"	11.5	0.0310	0.300	"	"	--	12.0	96.2%	"	13.4%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 89.8%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>04/27/09 17:30</i>
<i>Toluene-d8</i>													<i>107%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>105%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

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Kate Haney

Kate Haney, Project Manager

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	Project Number:	33759381	04/29/09 09:47
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D27041 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D27041-BLK1)										Extracted: 04/27/09 12:22				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/28/09 00:00	

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Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/29/09 09:47

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/29/09 09:47

Notes and Definitions

Report Specific Notes:

- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSD0286**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST							
REPORT TO: winep staff		P.O. NUMBER:		in Business Days *							
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses							
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses							
PROJECT NAME: WineP Phase II				STD. <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1							
PROJECT NUMBER:				OTHER Specify: Zf-h							
SAMPLED BY: Matt McKibbin				* Turnaround Requests: less than standard may incur Rush Charges.							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	LEAD	DECEB	WMPFH	DX (w/Atal 5% (cal CN))	WMPFH	WMPFH	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/OID
1 Areal-F14-14	4-27-09 / 1410	X	X	X	X	X	X	S	4	silt w/ sand PID=23ppm	-01
2 " - F5-14	" / 1420	X	X	X	X	X	X		1	sand w/ silt 6.7ppm	-02
3 " - G4-14	" / 1430	X	X	X	X	X	X		1	sand w/ silt 3ppm	-03
4 " - G5-14	" / 1440	X	X	X	X	X	X		1	sand w/ silt 2.4ppm	-04
5 " - H4-14	" / 1450	X	X	X	X	X	X		1	silt Sand 2.4ppm	-05
6 " - H5-14	" / 1500	X	X	X	X	X	X		1	Silty sand & gravel 138ppm	-06
7 Dup-11	" / -	X	X	X	X	X	X		1	-	-07
8											
9											
10											
RELEASED BY: Matthew McKibbin		DATE: 4-27-09		RECEIVED BY: Tommy Blankinship		DATE: 4/27/09		FIRM: WAS		FIRM: TA-S	
PRINT NAME: Matthew McKibbin		TIME: 1530		PRINT NAME:		TIME: 1530		FIRM:		FIRM:	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:		FIRM:		FIRM:	
PRINT NAME:		TIME:		PRINT NAME:		TIME:		FIRM:		FIRM:	
ADDITIONAL REMARKS:				TEMP: 5.9		PAGE: 1 OF 7		w/o		TAL-1000(0408)	
TCLP samples 2500 mg/kg total lead				@ Lab 1550							

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By:
(applies to temp at receipt)

Logged-in By:

Unpacked/Labeled By:

Cooler ID: _____

Date: 4/27

Date: 4/27

Date: 4/27

Work Order No. BSD 0286

Time: 1550

Time: 1608

Time: 1645

Client: _____

Initials: IB

Initials: IB

Initials: IB

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

Ship Container

Sign By

Bubble Bags

Styrofoam

Box

On Bottles

Date

Foam Packs

None/Other _____

None

None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

Fed Ex Client

Loose Ice _____

Y or N or NA

UPS TA Courier

None/Other _____

Initial/date/time IB 4/27 17:05

DHL Mid Valley

Servoy TDP

GS Other _____

Cooler Temperature (IR): 5 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 5,9 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved?

Y or N or NA

Provided by TA? or N _____

Client QAPP Preserved?

Y or N or NA

Correct Type? or N _____

Adequate Volume?
(for tests requested)

or N _____

#Containers match COC? or N _____

Water VOAs: Headspace? Y or N or NA

IDs/time/date match COC? or NA

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

Has client been contacted regarding non-conformances?

Y or N

If Y, _____ / _____
Date Time

PM Initials: _____ Date: _____ Time: _____

April 29, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 04/28/09 16:45.
The following list is a summary of the Work Orders contained in this report, generated on 04/29/09
16:10.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0301	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/29/09 16:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot 34-13	BSD0301-01	Soil	04/28/09 08:30	04/28/09 16:45

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/29/09 16:10
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0301-01 (Amazon Lot 34-13)		Soil			Sampled: 04/28/09 08:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.68	mg/kg dry	1x	9D28050	04/28/09 19:33	04/28/09 19:54	
<i>Surrogate(s): 4-BFB (FID)</i>			<i>91.6%</i>		<i>75 - 140 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/29/09 16:10

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0301-01 (Amazon Lot 34-13)		Soil					Sampled: 04/28/09 08:30			
Lube Oil	NWTPH-Dx	ND	----	26.5	mg/kg dry	1x	9D28054	04/28/09 17:17	04/29/09 04:12	
Kerosene	"	ND	----	10.6	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	10.6	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				97.2%		54 - 148 %	"			"
<i>Octacosane</i>				116%		62 - 142 %	"			"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/29/09 16:10

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0301-01 (Amazon Lot 34-13)										
		Soil					Sampled: 04/28/09 08:30			
Acetone	EPA 8260B	ND	----	25.9	ug/kg dry	1x	9D28034	04/28/09 16:40	04/28/09 18:07	
Benzene	"	ND	----	0.972	"	"	"	"	"	
Bromobenzene	"	ND	----	3.24	"	"	"	"	"	
Bromochloromethane	"	ND	----	3.24	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.24	"	"	"	"	"	
Bromoform	"	ND	----	3.24	"	"	"	"	"	
Bromomethane	"	ND	----	6.48	"	"	"	"	"	
2-Butanone	"	ND	----	19.4	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.24	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	3.24	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	3.24	"	"	"	"	"	
Carbon disulfide	"	ND	----	1.94	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.24	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.30	"	"	"	"	"	
Chloroethane	"	ND	----	3.24	"	"	"	"	"	
Chloroform	"	ND	----	1.62	"	"	"	"	"	
Chloromethane	"	ND	----	6.48	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.24	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	3.24	"	"	"	"	"	
Dibromochloromethane	"	ND	----	3.24	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	6.48	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	3.24	"	"	"	"	"	
Dibromomethane	"	ND	----	3.24	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.24	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	3.24	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	3.24	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	3.24	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.30	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.810	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.94	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.94	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.62	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.24	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.24	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	6.48	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.24	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.24	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.810	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.59	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	6.48	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.648	"	"	"	"	"	
n-Hexane	"	ND	----	3.24	"	"	"	"	"	
2-Hexanone	"	ND	----	19.4	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/29/09 16:10

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0301-01 (Amazon Lot 34-13)										
		Soil					Sampled: 04/28/09 08:30			
Isopropylbenzene	EPA 8260B	ND	----	3.24	ug/kg dry	1x	9D28034	04/28/09 16:40	04/28/09 18:07	
p-Isopropyltoluene	"	ND	----	3.24	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	19.4	"	"	"	"	"	
Methylene chloride	"	ND	----	7.78	"	"	"	"	"	
Naphthalene	"	ND	----	6.48	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.24	"	"	"	"	"	
Styrene	"	ND	----	1.62	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	6.48	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	6.48	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.24	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	3.24	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.30	"	"	"	"	"	
Toluene	"	ND	----	0.972	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.62	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.30	"	"	"	"	"	
Trichloroethene	"	1.97	----	1.62	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.24	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.24	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.24	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.24	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.62	"	"	"	"	"	
o-Xylene	"	ND	----	3.24	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.24	"	"	"	"	"	
Total Xylenes	"	ND	----	6.48	"	"	"	"	"	
<i>Surrogate(s):</i>										
	<i>1,2-DCA-d4</i>		<i>117%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>98.0%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>105%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/29/09 16:10

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0301-01 (Amazon Lot 34-13)		Soil					Sampled: 04/28/09 08:30			
Acenaphthene	8270C-SIM	ND	----	0.0106	mg/kg dry	1x	9D28055	04/28/09 17:19	04/29/09 13:24	
Acenaphthylene	"	ND	----	0.0106	"	"	"	"	"	"
Anthracene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (b & k) fluoranthene	"	ND	----	0.0212	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0106	"	"	"	"	"	"
Chrysene	"	ND	----	0.0106	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0106	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0106	"	"	"	"	"	"
Fluorene	"	ND	----	0.0106	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0106	"	"	"	"	"	"
1-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	"
2-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0106	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0106	"	"	"	"	"	"
Pyrene	"	ND	----	0.0106	"	"	"	"	"	"
<i>Surrogate(s): p-Terphenyl-d14</i>			63.8%		46 - 125 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/29/09 16:10
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0301-01	(Amazon Lot 34-13)									
		Soil					Sampled: 04/28/09 08:30			
Dry Weight	BSOPSPL003R0 8	93.9	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/29/09 16:10
--	--	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28050 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D28050-BLK1)													Extracted: 04/28/09 15:33			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/28/09 17:52			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/28/09 17:52</i>			
LCS (9D28050-BS1)													Extracted: 04/28/09 15:33			
Gasoline Range Hydrocarbons	NWTPH-Gx	50.7	---	5.00	mg/kg wet	1x	--	50.0	101%	(80-120)	--	--	04/28/09 18:24			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/28/09 18:24</i>			
Duplicate (9D28050-DUP1)													QC Source: BSD0301-01		Extracted: 04/28/09 15:33	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.68	mg/kg dry	1x	ND	--	--	--	NR (40)		04/28/09 20:27			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 90.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/28/09 20:27</i>			
Duplicate (9D28050-DUP2)													QC Source: BSD0302-01		Extracted: 04/28/09 15:33	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	7.20	mg/kg dry	1x	ND	--	--	--	NR (40)		04/28/09 21:31			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 110%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/28/09 21:31</i>			
Matrix Spike (9D28050-MS1)													QC Source: BSD0301-01		Extracted: 04/28/09 15:33	
Gasoline Range Hydrocarbons	NWTPH-Gx	60.0	---	5.68	mg/kg dry	1x	ND	53.5	112%	(75-130)	--	--	04/28/09 23:41			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>04/28/09 23:41</i>			

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/29/09 16:10
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28054 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D28054-BLK1)

Extracted: 04/28/09 17:17

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 02:38	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/29/09 02:38</i>	
<i>Octacosane</i>			<i>110%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D28054-BS1)

Extracted: 04/28/09 17:17

Lube Oil	NWTPH-Dx	65.7	---	25.0	mg/kg wet	1x	--	66.7	98.6%	(63-125)	--	--	04/29/09 03:01	
Diesel Range Hydrocarbons	"	75.5	---	10.0	"	"	--	"	113%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/29/09 03:01</i>	
<i>Octacosane</i>			<i>114%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D28054-DUP1)

QC Source: BSD0301-01

Extracted: 04/28/09 17:17

Lube Oil	NWTPH-Dx	ND	---	26.4	mg/kg dry	1x	ND	--	--	--	30.7% (50)	--	04/29/09 03:25	
Kerosene	"	ND	---	10.5	"	"	ND	--	--	--	9.86%	"	"	
Diesel Range Hydrocarbons	"	ND	---	10.5	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/29/09 03:25</i>	
<i>Octacosane</i>			<i>113%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D28054-MS1)

QC Source: BSD0301-01

Extracted: 04/28/09 17:17

Lube Oil	NWTPH-Dx	75.2	---	26.5	mg/kg dry	1x	3.51	70.8	101%	(26-150)	--	--	04/29/09 03:48	
Diesel Range Hydrocarbons	"	77.4	---	10.6	"	"	ND	"	109%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>97.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/29/09 03:48</i>	
<i>Octacosane</i>			<i>114%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/29/09 16:10
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28059	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D28059-BLK1)

Extracted: 04/28/09 21:17

Chromium	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 09:00	
Arsenic	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	

LCS (9D28059-BS1)

Extracted: 04/28/09 21:17

Chromium	EPA 6020	39.8	---	0.515	mg/kg wet	1x	--	41.2	96.5%	(80-120)	--	--	04/29/09 09:06	
Lead	"	40.3	---	0.515	"	"	--	"	97.7%	"	--	--	"	
Silver	"	40.5	---	0.515	"	"	--	"	98.1%	"	--	--	"	
Arsenic	"	41.0	---	0.515	"	"	--	"	99.3%	"	--	--	"	
Cadmium	"	40.4	---	0.515	"	"	--	"	97.9%	"	--	--	"	
Barium	"	39.2	---	5.15	"	"	--	"	95.1%	"	--	--	"	
Selenium	"	43.2	---	1.03	"	"	--	"	105%	"	--	--	"	

Duplicate (9D28059-DUP1)

QC Source: BSD0301-01

Extracted: 04/28/09 21:17

Selenium	EPA 6020	ND	---	1.04	mg/kg dry	1x	ND	--	--	--	NR (20)	--	04/29/09 09:25	
Barium	"	33.8	---	5.22	"	"	28.0	--	--	--	18.9%	"	"	
Silver	"	ND	---	0.522	"	"	ND	--	--	--	NR	"	"	
Arsenic	"	2.31	---	0.522	"	"	2.21	--	--	--	4.56%	"	"	
Cadmium	"	ND	---	0.522	"	"	ND	--	--	--	7.86%	"	"	
Lead	"	1.99	---	0.522	"	"	2.62	--	--	--	27.2%	"	"	R3
Chromium	"	23.0	---	0.522	"	"	23.5	--	--	--	2.30%	"	"	

Matrix Spike (9D28059-MS1)

QC Source: BSD0301-01

Extracted: 04/28/09 21:17

Silver	EPA 6020	37.8	---	0.544	mg/kg dry	1x	ND	43.5	86.9%	(75-125)	--	--	04/29/09 09:19	
Barium	"	70.1	---	5.44	"	"	28.0	"	96.9%	"	--	--	"	
Cadmium	"	41.9	---	0.544	"	"	0.309	"	95.6%	"	--	--	"	
Arsenic	"	43.6	---	0.544	"	"	2.21	"	95.1%	"	--	--	"	
Chromium	"	65.6	---	0.544	"	"	23.5	"	96.9%	"	--	--	"	
Lead	"	43.7	---	0.544	"	"	2.62	"	94.4%	"	--	--	"	
Selenium	"	43.4	---	1.09	"	"	ND	"	99.9%	"	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/29/09 16:10
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28059	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9D28059-PS1)			QC Source: BSD0301-01				Extracted: 04/28/09 21:17							
Cadmium	EPA 6020	0.101	---		ug/ml	1x	0.000580	0.100	100%	(80-120)	--	--	04/29/09 09:12	
Silver	"	0.0932	---		"	"	0.0000500	"	93.2%	"	--	--	"	
Lead	"	0.102	---		"	"	0.00491	"	96.2%	"	--	--	"	
Barium	"	0.148	---		"	"	0.0526	"	95.4%	"	--	--	"	
Selenium	"	0.105	---		"	"	0.000180	"	105%	"	--	--	"	
Arsenic	"	0.106	---		"	"	0.00414	0.0995	103%	"	--	--	"	
Chromium	"	0.143	---		"	"	0.0441	0.100	98.7%	"	--	--	"	

QC Batch: 9D29020	Soil Preparation Method: EPA 7471A
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D29020-BLK1)							Extracted: 04/29/09 12:20							
Mercury	EPA 7471A	ND	---	0.0994	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 14:25	
LCS (9D29020-BS1)							Extracted: 04/29/09 12:20							
Mercury	EPA 7471A	0.597	---	0.101	mg/kg wet	1x	--	0.671	88.9%	(80-120)	--	--	04/29/09 14:28	
LCS Dup (9D29020-BSD1)							Extracted: 04/29/09 12:20							
Mercury	EPA 7471A	0.589	---	0.0994	mg/kg wet	1x	--	0.663	88.8%	(80-120)	1.35%	(20)	04/29/09 14:30	
Matrix Spike (9D29020-MS1)			QC Source: BSD0301-01				Extracted: 04/29/09 12:20							
Mercury	EPA 7471A	0.604	---	0.0978	mg/kg dry	1x	0.0111	0.652	90.9%	(80-125)	--	--	04/29/09 14:33	
Matrix Spike Dup (9D29020-MSD1)			QC Source: BSD0301-01				Extracted: 04/29/09 12:20							
Mercury	EPA 7471A	0.636	---	0.0987	mg/kg dry	1x	0.0111	0.658	95.0%	(80-125)	5.27%	(30)	04/29/09 14:35	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/29/09 16:10
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28034 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D28034-BLK1)													Extracted: 04/28/09 13:10	
Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	04/28/09 16:35	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/29/09 16:10
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28034 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (9D28034-BLK1)

Extracted: 04/28/09 13:10

Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	04/28/09 16:35	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 128%	Limits: 70-140%	"	04/28/09 16:35
Toluene-d8	91.7%	70-130%	"	"
4-BFB	105%	70-130%	"	"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/29/09 16:10

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9D28034

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9D28034-BS1)													Extracted: 04/28/09 13:10	MNR1
Acetone	EPA 8260B	596	---	40.0	ug/kg wet	1x	--	500	119%	(60-140)	--	--	04/28/09 15:44	
Benzene	"	47.2	---	1.50	"	"	--	50.0	94.4%	(70-125)	--	--	"	
2-Butanone	"	464	---	30.0	"	"	--	500	92.9%	(60-140)	--	--	"	
Carbon disulfide	"	52.2	---	3.00	"	"	--	50.0	104%	(70-130)	--	--	"	
Chlorobenzene	"	44.8	---	2.00	"	"	--	"	89.6%	(70-125)	--	--	"	
1,1-Dichloroethane	"	51.3	---	2.00	"	"	--	"	103%	(75-125)	--	--	"	
1,1-Dichloroethene	"	51.6	---	3.00	"	"	--	"	103%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	49.7	---	3.00	"	"	--	"	99.4%	(75-125)	--	--	"	
Ethylbenzene	"	48.1	---	4.00	"	"	--	"	96.2%	(70-125)	--	--	"	
Hexachlorobutadiene	"	50.5	---	10.0	"	"	--	"	101%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	525	---	30.0	"	"	--	500	105%	(60-140)	--	--	"	
Tetrachloroethene	"	46.9	---	2.00	"	"	--	50.0	93.8%	(70-125)	--	--	"	
Toluene	"	45.6	---	1.50	"	"	--	"	91.1%	"	--	--	"	
1,1,1-Trichloroethane	"	53.1	---	2.50	"	"	--	"	106%	(70-130)	--	--	"	
Trichloroethene	"	47.2	---	2.50	"	"	--	"	94.5%	(70-125)	--	--	"	

Surrogate(s): 1,2-DCA-d4	Recovery: 106%	Limits: 70-140%	"	04/28/09 15:44
Toluene-d8	98.2%	70-130%	"	"
4-BFB	97.6%	70-130%	"	"

LCS Dup (9D28034-BSD1)

Extracted: 04/28/09 13:10

Acetone	EPA 8260B	542	---	40.0	ug/kg wet	1x	--	500	108%	(60-140)	9.46% (30)	04/28/09 16:09	
Benzene	"	46.5	---	1.50	"	"	--	50.0	93.1%	(70-125)	1.39%	"	"
2-Butanone	"	498	---	30.0	"	"	--	500	99.6%	(60-140)	6.97%	"	"
Carbon disulfide	"	46.3	---	3.00	"	"	--	50.0	92.7%	(70-130)	11.9%	"	"
Chlorobenzene	"	46.6	---	2.00	"	"	--	"	93.3%	(70-125)	4.00%	"	"
1,1-Dichloroethane	"	47.9	---	2.00	"	"	--	"	95.9%	(75-125)	6.73%	"	"
1,1-Dichloroethene	"	45.9	---	3.00	"	"	--	"	91.9%	(70-130)	11.6%	"	"
cis-1,2-Dichloroethene	"	46.8	---	3.00	"	"	--	"	93.5%	(75-125)	6.10%	"	"
Ethylbenzene	"	48.4	---	4.00	"	"	--	"	96.8%	(70-125)	0.560%	"	"
Hexachlorobutadiene	"	46.9	---	10.0	"	"	--	"	93.9%	(70-130)	7.37%	"	"
4-Methyl-2-pentanone	"	553	---	30.0	"	"	--	500	111%	(60-140)	5.28%	"	"
Tetrachloroethene	"	45.6	---	2.00	"	"	--	50.0	91.2%	(70-125)	2.77%	"	"
Toluene	"	44.3	---	1.50	"	"	--	"	88.6%	"	2.78%	"	"
1,1,1-Trichloroethane	"	49.2	---	2.50	"	"	--	"	98.3%	(70-130)	7.76%	"	"
Trichloroethene	"	47.2	---	2.50	"	"	--	"	94.4%	(70-125)	0.0212%	"	"

Surrogate(s): 1,2-DCA-d4	Recovery: 101%	Limits: 70-140%	"	04/28/09 16:09
Toluene-d8	94.2%	70-130%	"	"
4-BFB	104%	70-130%	"	"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	04/29/09 16:10
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28055 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D28055-BLK1)													Extracted: 04/28/09 17:19	
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 12:58	
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b & k) fluoranthene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

Surrogate(s): *p-Terphenyl-d14* Recovery: 61.6% Limits: 46-125% " 04/29/09 12:58

LCS (9D28055-BS1)													Extracted: 04/28/09 17:19	
Acenaphthene	8270C-SIM	0.520	---	0.0100	mg/kg wet	1x	--	0.667	78.0%	(65-130)	--	--	04/29/09 13:50	
Acenaphthylene	"	0.612	---	0.0100	"	"	--	"	91.8%	(67-142)	--	--	"	
Anthracene	"	0.676	---	0.0100	"	"	--	"	101%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.510	---	0.0100	"	"	--	"	76.5%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.530	---	0.0100	"	"	--	"	79.5%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.545	---	0.0100	"	"	--	"	81.8%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.475	---	0.0100	"	"	--	"	71.3%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.609	---	0.0100	"	"	--	"	91.4%	"	--	--	"	
Chrysene	"	0.599	---	0.0100	"	"	--	"	89.8%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.579	---	0.0100	"	"	--	"	86.9%	(56-149)	--	--	"	
Fluoranthene	"	0.557	---	0.0100	"	"	--	"	83.6%	(72-145)	--	--	"	
Fluorene	"	0.596	---	0.0100	"	"	--	"	89.5%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.563	---	0.0100	"	"	--	"	84.4%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.424	---	0.0100	"	"	--	"	63.7%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.399	---	0.0100	"	"	--	"	59.8%	(56-124)	--	--	"	
Naphthalene	"	0.420	---	0.0100	"	"	--	"	63.1%	(56-146)	--	--	"	
Phenanthrene	"	0.556	---	0.0100	"	"	--	"	83.4%	(64-139)	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/29/09 16:10
--	--	-----------------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28055 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9D28055-BS1)

Extracted: 04/28/09 17:19

Pyrene	8270C-SIM	0.500	---	0.0100	mg/kg wet	1x	--	0.667	75.0%	(58-149)	--	--	04/29/09 13:50	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 55.2%</i>		<i>Limits: 46-125%</i>		<i>"</i>							<i>04/29/09 13:50</i>	

Matrix Spike (9D28055-MS1)

QC Source: BSD0301-01

Extracted: 04/28/09 17:19

Acenaphthene	8270C-SIM	0.529	---	0.0105	mg/kg dry	1x	ND	0.701	75.5%	(64-140)	--	--	04/29/09 14:15	
Acenaphthylene	"	0.616	---	0.0105	"	"	ND	"	87.9%	(66-150)	--	--	"	
Anthracene	"	0.679	---	0.0105	"	"	ND	"	96.8%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.512	---	0.0105	"	"	ND	"	73.1%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.544	---	0.0105	"	"	ND	"	77.6%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.526	---	0.0105	"	"	ND	"	75.1%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.477	---	0.0105	"	"	ND	"	68.1%	"	--	--	"	
Benzo (ghi) perylene	"	0.582	---	0.0105	"	"	ND	"	83.1%	"	--	--	"	
Chrysene	"	0.599	---	0.0105	"	"	ND	"	85.5%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.546	---	0.0105	"	"	ND	"	77.9%	(55-150)	--	--	"	
Fluoranthene	"	0.556	---	0.0105	"	"	ND	"	79.4%	(70-150)	--	--	"	
Fluorene	"	0.607	---	0.0105	"	"	ND	"	86.6%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.537	---	0.0105	"	"	ND	"	76.5%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.450	---	0.0105	"	"	ND	"	64.2%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.421	---	0.0105	"	"	ND	"	60.1%	(50-140)	--	--	"	
Naphthalene	"	0.418	---	0.0105	"	"	ND	"	59.6%	(47-147)	--	--	"	
Phenanthrene	"	0.554	---	0.0105	"	"	ND	"	79.0%	(56-150)	--	--	"	
Pyrene	"	0.476	---	0.0105	"	"	ND	"	67.9%	(57-150)	--	--	"	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 51.3%</i>		<i>Limits: 46-125%</i>		<i>"</i>							<i>04/29/09 14:15</i>	

Matrix Spike Dup (9D28055-MSD1)

QC Source: BSD0301-01

Extracted: 04/28/09 17:19

Acenaphthene	8270C-SIM	0.546	---	0.0105	mg/kg dry	1x	ND	0.701	77.9%	(64-140)	3.13%	(41)	04/29/09 14:41	
Acenaphthylene	"	0.647	---	0.0105	"	"	ND	"	92.3%	(66-150)	4.97%	"	"	
Anthracene	"	0.698	---	0.0105	"	"	ND	"	99.6%	(54-150)	2.78%	"	"	
Benzo (a) anthracene	"	0.522	---	0.0105	"	"	ND	"	74.4%	(57-150)	1.80%	"	"	
Benzo (a) pyrene	"	0.557	---	0.0105	"	"	ND	"	79.5%	(55-150)	2.41%	(35)	"	
Benzo (b) fluoranthene	"	0.534	---	0.0105	"	"	ND	"	76.1%	(54-150)	1.38%	(41)	"	
Benzo (k) fluoranthene	"	0.486	---	0.0105	"	"	ND	"	69.3%	"	1.80%	"	"	
Benzo (ghi) perylene	"	0.617	---	0.0105	"	"	ND	"	88.1%	"	5.81%	"	"	
Chrysene	"	0.611	---	0.0105	"	"	ND	"	87.2%	(65-150)	2.06%	(40)	"	
Dibenz (a,h) anthracene	"	0.579	---	0.0105	"	"	ND	"	82.6%	(55-150)	5.92%	(41)	"	
Fluoranthene	"	0.565	---	0.0105	"	"	ND	"	80.6%	(70-150)	1.55%	"	"	
Fluorene	"	0.630	---	0.0105	"	"	ND	"	89.9%	(74-150)	3.74%	(44)	"	
Indeno (1,2,3-cd) pyrene	"	0.567	---	0.0105	"	"	ND	"	80.9%	(50-150)	5.51%	"	"	
1-Methylnaphthalene	"	0.459	---	0.0105	"	"	ND	"	65.6%	(45-145)	2.02%	(41)	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 04/29/09 16:10
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28055 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9D28055-MSD1)			QC Source: BSD0301-01				Extracted: 04/28/09 17:19							
2-Methylnaphthalene	8270C-SIM	0.431	---	0.0105	mg/kg dry	1x	ND	0.701	61.4%	(50-140)	2.16%	(41)	04/29/09 14:41	
Naphthalene	"	0.430	---	0.0105	"	"	ND	"	61.3%	(47-147)	2.78%	"	"	
Phenanthrene	"	0.570	---	0.0105	"	"	ND	"	81.3%	(56-150)	2.77%	"	"	
Pyrene	"	0.481	---	0.0105	"	"	ND	"	68.6%	(57-150)	1.10%	"	"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 52.1%		Limits: 46-125%		"		04/29/09 14:41						

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	04/29/09 16:10
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28021 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D28021-BLK1)										Extracted: 04/28/09 11:43				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/29/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/29/09 16:10

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

04/29/09 16:10

Notes and Definitions

Report Specific Notes:

- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
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425-420-9200 FAX
 509-924-9200 FAX
 503-906-9200 FAX
 907-563-9200 FAX

6110301

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: WRS CORP		INVOICE TO: WRS CORP 1501 4th Ave, Ste 1400 Seattle, WA 98101		TURNAROUND REQ.:		
REPORT TO: WMCSP Staff		P.O. NUMBER:		in Business Days *		
PHONE:		PRESERVATIVE		Organic & Inorganic Analyses		
FAX:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analy		
PROJECT NAME: WMCSP Phase II		82608		STD.		
PROJECT NUMBER:		RCA 8		STD.		
SAMPLED BY: Matthew McKibbin		PART 5		OTHER Specify: 24-h		
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DX	DX	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS
Amerson Lot 34-13	4-28-09 / 0830	WTR#	WTR#	S	4	Chry 01
2						
3						
4						
5						
6						
7						
8						
9						
10						
RELEASED BY: Matt KSR		DATE: 4-28-09		RECEIVED BY: Cathy Campbell		DATE: 4/28/09
PRINT NAME: Matthew McKibbin		TIME: 0900		PRINT NAME: Cathy Campbell		DATE: 4/28/09
FIRM: WRS		DATE:		RECEIVED BY:		FIRM: TA Ser
RELEASED BY:		TIME:		PRINT NAME:		DATE:
FIRM:		DATE:		PRINT NAME:		TIME:
PRINT NAME:		DATE:		PRINT NAME:		TEMP:
FIRM:		DATE:		PRINT NAME:		F
ADDITIONAL REMARKS:		DATE:		PRINT NAME:		

TAT: _____
Page Time & Initials: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances? 0
Circle Y or N
(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: (applies to temp at receipt)	Logged-in By:	Unpacked/ Labeled by:	Label Review by:	Cooler ID: _____
Date: <u>4/28/06</u>	Date: <u>4/28</u>	Date: <u>4/28</u>	Date: <u>Y</u>	Work Order No. <u>301</u>
Time: <u>1645</u>	Time: <u>10:47</u>	Time: <u>11:50</u>	Time: _____	Client: _____
Initials: <u>FL</u>	Initials: <u>CL</u>	Initials: <u>CL</u>	Initials: _____	Project: _____

Container Type:	COC Seals:	Packing Material:		
<input checked="" type="checkbox"/> Cooler	____ Ship Container	____ Sign By	____ Bubble Bags	____ Styrofoam
____ Box	____ On Bottles	____ Date	____ Foam Packs	
____ None/Other _____	<input checked="" type="checkbox"/> None		<input checked="" type="checkbox"/> None/Other <u>Bubble wrap</u>	

Refrigerant:	Soil Stir Bars/Encores:	Received Via: Bill#:	
<input checked="" type="checkbox"/> Gel Ice Pack _____	Placed in freezer #46:	____ Fed Ex	____ Client
____ Loose Ice _____	<input checked="" type="checkbox"/> or N or NA	____ UPS	<input checked="" type="checkbox"/> TA Courier
____ None/Other _____	Initial/date/time <u>CL 4/28 11:50</u>	____ DHL	____ Mid Valley
		____ Senvoy	____ TDP
		____ GS	____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 4.1 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
(initial/date/time): _____
Comments: _____

Sample Containers:	ID	ID
Intact?	<input checked="" type="checkbox"/> or N _____	Metals Preserved? Y or N or <input checked="" type="checkbox"/> NA _____
Provided by TA?	<input checked="" type="checkbox"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="checkbox"/> NA _____
Correct Type?	<input checked="" type="checkbox"/> or N _____	Adequate Volume? <input checked="" type="checkbox"/> or N _____ (for tests requested)
#Containers match COC?	<input checked="" type="checkbox"/> or N _____	Water VOAs: Headspace? Y or N or <input checked="" type="checkbox"/> NA _____
IDs/time/date match COC?	<input checked="" type="checkbox"/> or N _____	Comments: _____
Hold Times in hold?	<input checked="" type="checkbox"/> or N _____	

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? Y or N

April 30, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/28/09 16:45.
The following list is a summary of the Work Orders contained in this report, generated on 04/30/09
15:12.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0302	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-A2-14	BSD0302-01	Soil	04/28/09 13:10	04/28/09 16:45
Area1-A3-14	BSD0302-02	Soil	04/28/09 13:20	04/28/09 16:45
Area1-B2-14	BSD0302-03	Soil	04/28/09 13:30	04/28/09 16:45
Area1-B3-14	BSD0302-04	Soil	04/28/09 13:40	04/28/09 16:45
Area1-C2-14	BSD0302-05	Soil	04/28/09 13:50	04/28/09 16:45
Area1-C3-14	BSD0302-06	Soil	04/28/09 14:00	04/28/09 16:45
Area1-D2-14	BSD0302-07	Soil	04/28/09 14:10	04/28/09 16:45
Area1-D3-14	BSD0302-08	Soil	04/28/09 14:20	04/28/09 16:45
Area1-H12-12	BSD0302-09	Soil	04/28/09 15:15	04/28/09 16:45
Area1-H12-7	BSD0302-10	Soil	04/28/09 15:20	04/28/09 16:45
Area1-H11-12	BSD0302-11	Soil	04/28/09 15:30	04/28/09 16:45
Area1-H11-9	BSD0302-12	Soil	04/28/09 15:40	04/28/09 16:45
Area1-D11-12	BSD0302-13	Soil	04/28/09 15:50	04/28/09 16:45
Area1-D9-9	BSD0302-14	Soil	04/28/09 15:55	04/28/09 16:45
Area1-D9-12	BSD0302-15	Soil	04/28/09 16:00	04/28/09 16:45

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/30/09 15:12
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-01 (Area1-A2-14)		Soil		Sampled: 04/28/09 13:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.02	7.20	mg/kg dry	1x	9D28050	04/28/09 19:33	04/28/09 20:59	
Surrogate(s): 4-BFB (FID)			110%		75 - 140 %	"				"
BSD0302-02 (Area1-A3-14)		Soil		Sampled: 04/28/09 13:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	3.04	2.23	7.95	mg/kg dry	1x	9D28050	04/28/09 19:33	04/28/09 22:04	J
Surrogate(s): 4-BFB (FID)			113%		75 - 140 %	"				"
BSD0302-03 (Area1-B2-14)		Soil		Sampled: 04/28/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.01	2.01	7.19	mg/kg dry	1x	9D28050	04/28/09 19:33	04/28/09 22:36	J
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"				"
BSD0302-04 (Area1-B3-14)		Soil		Sampled: 04/28/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	70.2	1.44	5.15	mg/kg dry	1x	9D28050	04/28/09 19:33	04/28/09 23:08	
Surrogate(s): 4-BFB (FID)			272%		75 - 140 %	"				ZX
BSD0302-05 (Area1-C2-14)		Soil		Sampled: 04/28/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.57	5.61	mg/kg dry	1x	9D28050	04/28/09 19:33	04/29/09 01:18	
Surrogate(s): 4-BFB (FID)			108%		75 - 140 %	"				"
BSD0302-06 (Area1-C3-14)		Soil		Sampled: 04/28/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	1.71	1.37	4.89	mg/kg dry	1x	9D28050	04/28/09 19:33	04/29/09 01:50	J
Surrogate(s): 4-BFB (FID)			113%		75 - 140 %	"				"
BSD0302-07 (Area1-D2-14)		Soil		Sampled: 04/28/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.89	6.74	mg/kg dry	1x	9D28050	04/28/09 19:33	04/29/09 02:23	
Surrogate(s): 4-BFB (FID)			106%		75 - 140 %	"				"
BSD0302-08 (Area1-D3-14)		Soil		Sampled: 04/28/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.55	5.53	mg/kg dry	1x	9D28050	04/28/09 19:33	04/29/09 02:55	
Surrogate(s): 4-BFB (FID)			104%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-10 (Area1-H12-7)		Soil		Sampled: 04/28/09 15:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.88	6.72	mg/kg dry	1x	9D28050	04/28/09 19:33	04/29/09 03:27	
<i>Surrogate(s): 4-BFB (FID)</i>			110%		75 - 140 %	"				"
BSD0302-11 (Area1-H11-12)		Soil		Sampled: 04/28/09 15:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	6.56	5.38	19.2	mg/kg dry	1x	9D28050	04/28/09 19:33	04/29/09 04:00	J
<i>Surrogate(s): 4-BFB (FID)</i>			125%		75 - 140 %	"				"
BSD0302-12 (Area1-H11-9)		Soil		Sampled: 04/28/09 15:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.92	6.85	mg/kg dry	1x	9D28050	04/28/09 19:33	04/29/09 04:32	
<i>Surrogate(s): 4-BFB (FID)</i>			106%		75 - 140 %	"				"
BSD0302-13 (Area1-D11-12)		Soil		Sampled: 04/28/09 15:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	203	10.9	38.8	mg/kg dry	1x	9D28050	04/28/09 19:33	04/29/09 05:05	Q1
<i>Surrogate(s): 4-BFB (FID)</i>			138%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/30/09 15:12
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-01 (Area1-A2-14)		Soil			Sampled: 04/28/09 13:10					
Lube Oil	NWTPH-Dx	ND	----	33.0	mg/kg dry	1x	9D28053	04/28/09 17:14	04/28/09 23:07	
Kerosene	"	ND	----	13.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			102%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"
BSD0302-02 (Area1-A3-14)		Soil			Sampled: 04/28/09 13:20					
Lube Oil	NWTPH-Dx	ND	----	33.9	mg/kg dry	1x	9D28053	04/28/09 17:14	04/28/09 23:30	
Kerosene	"	ND	----	13.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			96.4%		54 - 148 %	"				"
<i>Octacosane</i>			109%		62 - 142 %	"				"
BSD0302-03 (Area1-B2-14)		Soil			Sampled: 04/28/09 13:30					
Lube Oil	NWTPH-Dx	ND	----	33.1	mg/kg dry	1x	9D28053	04/28/09 17:14	04/28/09 23:53	
Kerosene	"	ND	----	13.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.0%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"
BSD0302-04 (Area1-B3-14)		Soil			Sampled: 04/28/09 13:40					
Lube Oil	NWTPH-Dx	158	----	36.2	mg/kg dry	1x	9D28053	04/28/09 17:14	04/29/09 00:17	Q1
Kerosene	"	30.0	----	14.5	"	"	"	"	"	A-01a
Diesel Range Hydrocarbons	"	75.9	----	14.5	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			93.2%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0302-05 (Area1-C2-14)		Soil			Sampled: 04/28/09 13:50					
Lube Oil	NWTPH-Dx	ND	----	30.1	mg/kg dry	1x	9D28053	04/28/09 17:14	04/29/09 00:41	
Kerosene	"	ND	----	12.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.6%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/30/09 15:12
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-06 (Area1-C3-14)		Soil			Sampled: 04/28/09 14:00					
Lube Oil	NWTPH-Dx	ND	----	30.4	mg/kg dry	1x	9D28053	04/28/09 17:14	04/29/09 01:04	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			96.8%		54 - 148 %	"				"
<i>Octacosane</i>			109%		62 - 142 %	"				"
BSD0302-07 (Area1-D2-14)		Soil			Sampled: 04/28/09 14:10					
Lube Oil	NWTPH-Dx	ND	----	31.8	mg/kg dry	1x	9D28053	04/28/09 17:14	04/29/09 04:35	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.6%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSD0302-08 (Area1-D3-14)		Soil			Sampled: 04/28/09 14:20					
Lube Oil	NWTPH-Dx	ND	----	29.3	mg/kg dry	1x	9D28053	04/28/09 17:14	04/29/09 04:58	
Kerosene	"	ND	----	11.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.0%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"
BSD0302-10 (Area1-H12-7)		Soil			Sampled: 04/28/09 15:20					
Lube Oil	NWTPH-Dx	ND	----	32.6	mg/kg dry	1x	9D28053	04/28/09 17:14	04/29/09 05:22	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.8%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"
BSD0302-13 (Area1-D11-12)		Soil			Sampled: 04/28/09 15:50					
Kerosene	NWTPH-Dx	8490	----	376	mg/kg dry	10x	9D28053	04/28/09 17:14	04/29/09 05:45	A-01
<i>Surrogate(s): 2-FBP</i>			79.8%		54 - 148 %	"				"
<i>Octacosane</i>			NR		62 - 142 %	"				Z9

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/30/09 15:12
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-13RE1 (Area1-D11-12)										
		Soil					Sampled: 04/28/09 15:50			
Lube Oil	NWTPH-Dx	59100	----	9390	mg/kg dry	100x	9D28053	04/28/09 17:14	04/29/09 09:49	Q1
Diesel Range Hydrocarbons	"	44200	----	3760	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			NR		54 - 148 %	"			"	Z3
Octacosane			NR		62 - 142 %	"			"	Z3

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/30/09 15:12
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-01 (Area1-A2-14)		Soil			Sampled: 04/28/09 13:10					
Lead	EPA 6020	4.77	----	0.630	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 09:56	
BSD0302-02 (Area1-A3-14)		Soil			Sampled: 04/28/09 13:20					
Lead	EPA 6020	105	----	0.717	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 10:03	
BSD0302-03 (Area1-B2-14)		Soil			Sampled: 04/28/09 13:30					
Lead	EPA 6020	11.1	----	0.653	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 10:09	
BSD0302-04 (Area1-B3-14)		Soil			Sampled: 04/28/09 13:40					
Lead	EPA 6020	23.8	----	0.751	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 10:15	
BSD0302-05 (Area1-C2-14)		Soil			Sampled: 04/28/09 13:50					
Lead	EPA 6020	8.91	----	0.611	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 10:21	
BSD0302-06 (Area1-C3-14)		Soil			Sampled: 04/28/09 14:00					
Lead	EPA 6020	8.72	----	0.585	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 10:28	
BSD0302-07 (Area1-D2-14)		Soil			Sampled: 04/28/09 14:10					
Lead	EPA 6020	14.3	----	0.621	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 10:34	
BSD0302-08 (Area1-D3-14)		Soil			Sampled: 04/28/09 14:20					
Lead	EPA 6020	14.8	----	0.579	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 10:40	
BSD0302-09 (Area1-H12-12)		Soil			Sampled: 04/28/09 15:15					
Lead	EPA 6020	120	----	0.926	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 10:47	
BSD0302-10 (Area1-H12-7)		Soil			Sampled: 04/28/09 15:20					
Lead	EPA 6020	1.61	----	0.653	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 11:12	
BSD0302-11RE1 (Area1-H11-12)		Soil			Sampled: 04/28/09 15:30					
Lead	EPA 6020	18900	----	111	mg/kg dry	100x	9D28059	04/28/09 21:17	04/29/09 12:53	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-12 (Area1-H11-9)		Soil		Sampled: 04/28/09 15:40						
Lead	EPA 6020	2.39	----	0.654	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 12:40	
BSD0302-13RE1 (Area1-D11-12)		Soil		Sampled: 04/28/09 15:50						
Lead	EPA 6020	4660	----	18.7	mg/kg dry	10x	9D28059	04/28/09 21:17	04/29/09 12:59	
BSD0302-14RE1 (Area1-D9-9)		Soil		Sampled: 04/28/09 15:55						
Lead	EPA 6020	485	----	3.51	mg/kg dry	5x	9D28059	04/28/09 21:17	04/29/09 12:46	
BSD0302-15 (Area1-D9-12)		Soil		Sampled: 04/28/09 16:00						
Lead	EPA 6020	186	----	2.39	mg/kg dry	1x	9D28059	04/28/09 21:17	04/29/09 11:43	

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Kate Haney, Project Manager

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-11 (Area1-H11-12)		Soil		Sampled: 04/28/09 15:30						
Lead	EPA 6010B	57.7	----	1.00	mg/l	1x	9D30018	04/30/09 10:11	04/30/09 14:27	
BSD0302-13 (Area1-D11-12)		Soil		Sampled: 04/28/09 15:50						
Lead	EPA 6010B	2.81	----	1.00	mg/l	1x	9D30018	04/30/09 10:11	04/30/09 14:30	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-01 (Area1-A2-14)		Soil		Sampled: 04/28/09 13:10						
Benzene	EPA 8260B	ND	----	0.00103	mg/kg dry	1x	9D28034	04/28/09 16:40	04/28/09 18:33	
Ethylbenzene	"	ND	----	0.00275	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000687	"	"	"	"	"	
Naphthalene	"	ND	----	0.00687	"	"	"	"	"	
Toluene	"	ND	----	0.00103	"	"	"	"	"	
o-Xylene	"	ND	----	0.00344	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00344	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00687	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>117%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
<i>4-BFB</i>			<i>108%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
BSD0302-02 (Area1-A3-14)		Soil		Sampled: 04/28/09 13:20						
Benzene	EPA 8260B	ND	----	0.00115	mg/kg dry	1x	9D28034	04/28/09 16:40	04/28/09 18:58	
Ethylbenzene	"	ND	----	0.00306	"	"	"	"	"	12
Methyl tert-butyl ether	"	ND	----	0.000766	"	"	"	"	"	
Naphthalene	"	ND	----	0.00766	"	"	"	"	"	12
Toluene	"	ND	----	0.00115	"	"	"	"	"	12
o-Xylene	"	ND	----	0.00383	"	"	"	"	"	12
m,p-Xylene	"	ND	----	0.00383	"	"	"	"	"	12
Total Xylenes	"	ND	----	0.00766	"	"	"	"	"	12
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>133%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>	
<i>Toluene-d8</i>			<i>103%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	12
<i>4-BFB</i>			<i>111%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	12
BSD0302-03 (Area1-B2-14)		Soil		Sampled: 04/28/09 13:30						
Benzene	EPA 8260B	ND	----	0.00110	mg/kg dry	1x	9D28034	04/28/09 16:40	04/28/09 19:24	
Ethylbenzene	"	ND	----	0.00293	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000732	"	"	"	"	"	
Naphthalene	"	ND	----	0.00732	"	"	"	"	"	
Toluene	"	ND	----	0.00110	"	"	"	"	"	
o-Xylene	"	ND	----	0.00366	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00366	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00732	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>120%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>	
<i>Toluene-d8</i>			<i>97.7%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
<i>4-BFB</i>			<i>108%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/30/09 15:12
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-04 (Area1-B3-14)		Soil			Sampled: 04/28/09 13:40					P13
Benzene	EPA 8260B	0.0186	----	0.000515	mg/kg dry	1x	9D28034	04/28/09 16:40	04/28/09 19:49	
Ethylbenzene	"	0.0122	----	0.00137	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000343	"	"	"	"	"	
Naphthalene	"	ND	----	0.00343	"	"	"	"	"	
Toluene	"	0.000704	----	0.000515	"	"	"	"	"	
o-Xylene	"	ND	----	0.00172	"	"	"	"	"	
m,p-Xylene	"	0.00402	----	0.00172	"	"	"	"	"	
Total Xylenes	"	0.00476	----	0.00343	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			112%		70 - 140 %	"				"
<i>Toluene-d8</i>			106%		70 - 130 %	"				"
<i>4-BFB</i>			107%		70 - 130 %	"				"

BSD0302-05 (Area1-C2-14)		Soil			Sampled: 04/28/09 13:50					
Benzene	EPA 8260B	ND	----	0.000994	mg/kg dry	1x	9D28034	04/28/09 16:40	04/28/09 20:15	
Ethylbenzene	"	ND	----	0.00265	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000663	"	"	"	"	"	
Naphthalene	"	ND	----	0.00663	"	"	"	"	"	
Toluene	"	ND	----	0.000994	"	"	"	"	"	
o-Xylene	"	ND	----	0.00331	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00331	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00663	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			127%		70 - 140 %	"				"
<i>Toluene-d8</i>			96.5%		70 - 130 %	"				"
<i>4-BFB</i>			100%		70 - 130 %	"				"

BSD0302-06 (Area1-C3-14)		Soil			Sampled: 04/28/09 14:00					P13
Benzene	EPA 8260B	ND	----	0.000695	mg/kg dry	1x	9D28034	04/28/09 16:40	04/28/09 20:40	
Ethylbenzene	"	ND	----	0.00185	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000463	"	"	"	"	"	
Naphthalene	"	ND	----	0.00463	"	"	"	"	"	
Toluene	"	ND	----	0.000695	"	"	"	"	"	
o-Xylene	"	ND	----	0.00232	"	"	"	"	"	
m,p-Xylene	"	0.00260	----	0.00232	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00463	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			129%		70 - 140 %	"				"
<i>Toluene-d8</i>			101%		70 - 130 %	"				"
<i>4-BFB</i>			112%		70 - 130 %	"				"

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Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-07 (Area1-D2-14)		Soil					Sampled: 04/28/09 14:10			P13
Benzene	EPA 8260B	ND	----	0.000715	mg/kg dry	1x	9D29003	04/29/09 08:17	04/29/09 10:49	
Ethylbenzene	"	ND	----	0.00191	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000477	"	"	"	"	"	
Naphthalene	"	ND	----	0.00477	"	"	"	"	"	
Toluene	"	ND	----	0.000715	"	"	"	"	"	
o-Xylene	"	ND	----	0.00238	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00238	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00477	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 122% 70 - 140 % "
 Toluene-d8 98.4% 70 - 130 % "
 4-BFB 112% 70 - 130 % "

BSD0302-08 (Area1-D3-14)		Soil					Sampled: 04/28/09 14:20			
Benzene	EPA 8260B	ND	----	0.000895	mg/kg dry	1x	9D29003	04/29/09 08:09	04/29/09 13:49	
Ethylbenzene	"	ND	----	0.00239	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000597	"	"	"	"	"	
Naphthalene	"	ND	----	0.00597	"	"	"	"	"	
Toluene	"	ND	----	0.000895	"	"	"	"	"	
o-Xylene	"	ND	----	0.00298	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00298	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00597	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 123% 70 - 140 % "
 Toluene-d8 95.1% 70 - 130 % "
 4-BFB 106% 70 - 130 % "

BSD0302-10 (Area1-H12-7)		Soil					Sampled: 04/28/09 15:20			
Benzene	EPA 8260B	ND	----	0.00101	mg/kg dry	1x	9D29003	04/29/09 08:09	04/29/09 11:15	
Ethylbenzene	"	ND	----	0.00268	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000670	"	"	"	"	"	
Naphthalene	"	ND	----	0.00670	"	"	"	"	"	
Toluene	"	ND	----	0.00101	"	"	"	"	"	
o-Xylene	"	ND	----	0.00335	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00335	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00670	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 117% 70 - 140 % "
 Toluene-d8 95.3% 70 - 130 % "
 4-BFB 105% 70 - 130 % "

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-11RE1 (Area1-H11-12)		Soil		Sampled: 04/28/09 15:30						
Benzene	EPA 8260B	ND	----	0.00260	mg/kg dry	1x	9D29003	04/29/09 08:09	04/29/09 14:15	I
Ethylbenzene	"	ND	----	0.00694	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.00173	"	"	"	"	"	I
Naphthalene	"	ND	----	0.0173	"	"	"	"	"	I
Toluene	"	ND	----	0.00260	"	"	"	"	"	I
o-Xylene	"	ND	----	0.00867	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.00867	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.0173	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			138%	70 - 140 %	"	"	"	"	"	I
<i>Toluene-d8</i>			107%	70 - 130 %	"	"	"	"	"	I
<i>4-BFB</i>			126%	70 - 130 %	"	"	"	"	"	I
BSD0302-12 (Area1-H11-9)		Soil		Sampled: 04/28/09 15:40						
Benzene	EPA 8260B	ND	----	0.00105	mg/kg dry	1x	9D29003	04/29/09 08:09	04/29/09 12:06	
Ethylbenzene	"	ND	----	0.00281	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000703	"	"	"	"	"	
Naphthalene	"	ND	----	0.00703	"	"	"	"	"	
Toluene	"	ND	----	0.00105	"	"	"	"	"	
o-Xylene	"	ND	----	0.00351	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00351	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00703	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			119%	70 - 140 %	"	"	"	"	"	
<i>Toluene-d8</i>			97.6%	70 - 130 %	"	"	"	"	"	
<i>4-BFB</i>			110%	70 - 130 %	"	"	"	"	"	
BSD0302-13 (Area1-D11-12)		Soil		Sampled: 04/28/09 15:50						
Ethylbenzene	EPA 8260B	ND	----	0.0108	mg/kg dry	1x	9D29003	04/29/09 08:09	04/29/09 12:32	I
Methyl tert-butyl ether	"	ND	----	0.00270	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			155%	70 - 140 %	"	"	"	"	"	ZX, I
<i>Toluene-d8</i>			160%	70 - 130 %	"	"	"	"	"	ZX, I
<i>4-BFB</i>			165%	70 - 130 %	"	"	"	"	"	ZX, I

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-13	(Area1-D11-12)	Soil		Sampled: 04/28/09 15:50						
Benzene	EPA 8260B	0.155	0.0776	0.155	mg/kg dry	1x	9D29005	04/29/09 08:57	04/29/09 15:04	
Naphthalene	"	ND	8.53	15.5	"	"	"	"	"	
Toluene	"	0.132	0.0776	0.776	"	"	"	"	"	
o-Xylene	"	ND	0.132	0.776	"	"	"	"	"	
m,p-Xylene	"	ND	0.163	1.55	"	"	"	"	"	
Xylenes (total)	"	ND	0.240	2.33	"	"	"	"	"	
<i>Surrogate(s):</i>										
	<i>1,2-DCA-d4</i>		90.6%		75 - 125 %	"				"
	<i>Toluene-d8</i>		102%		75 - 125 %	"				"
	<i>4-BFB</i>		102%		75 - 125 %	"				"

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-01 (Area1-A2-14)		Soil								Sampled: 04/28/09 13:10
Dry Weight	BSOPSP003R0 8	75.6	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-02 (Area1-A3-14)		Soil								Sampled: 04/28/09 13:20
Dry Weight	BSOPSP003R0 8	72.6	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-03 (Area1-B2-14)		Soil								Sampled: 04/28/09 13:30
Dry Weight	BSOPSP003R0 8	75.1	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-04 (Area1-B3-14)		Soil								Sampled: 04/28/09 13:40
Dry Weight	BSOPSP003R0 8	68.0	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-05 (Area1-C2-14)		Soil								Sampled: 04/28/09 13:50
Dry Weight	BSOPSP003R0 8	81.9	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-06 (Area1-C3-14)		Soil								Sampled: 04/28/09 14:00
Dry Weight	BSOPSP003R0 8	82.2	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-07 (Area1-D2-14)		Soil								Sampled: 04/28/09 14:10
Dry Weight	BSOPSP003R0 8	78.2	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-08 (Area1-D3-14)		Soil								Sampled: 04/28/09 14:20
Dry Weight	BSOPSP003R0 8	83.9	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-09 (Area1-H12-12)		Soil								Sampled: 04/28/09 15:15
Dry Weight	BSOPSP003R0 8	54.5	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-10 (Area1-H12-7)		Soil								Sampled: 04/28/09 15:20
Dry Weight	BSOPSP003R0 8	76.5	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-11 (Area1-H11-12)		Soil								Sampled: 04/28/09 15:30

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0302-11 (Area1-H11-12)		Soil			Sampled: 04/28/09 15:30					
Dry Weight	BSOPSP003R0 8	46.3	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-12 (Area1-H11-9)		Soil			Sampled: 04/28/09 15:40					
Dry Weight	BSOPSP003R0 8	78.9	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-13 (Area1-D11-12)		Soil			Sampled: 04/28/09 15:50					
Dry Weight	BSOPSP003R0 8	26.3	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-14 (Area1-D9-9)		Soil			Sampled: 04/28/09 15:55					
Dry Weight	BSOPSP003R0 8	72.7	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	
BSD0302-15 (Area1-D9-12)		Soil			Sampled: 04/28/09 16:00					
Dry Weight	BSOPSP003R0 8	20.3	----	1.00	%	1x	9D28021	04/28/09 16:10	04/29/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28050 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes					
Blank (9D28050-BLK1)										Extracted: 04/28/09 15:33									
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/28/09 17:52						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/28/09 17:52</i>					
LCS (9D28050-BS1)										Extracted: 04/28/09 15:33									
Gasoline Range Hydrocarbons	NWTPH-Gx	50.7	1.40	5.00	mg/kg wet	1x	--	50.0	101%	(80-120)	--	--	04/28/09 18:24						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/28/09 18:24</i>					
Duplicate (9D28050-DUP1)										QC Source: BSD0301-01					Extracted: 04/28/09 15:33				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.59	5.68	mg/kg dry	1x	ND	--	--	--	NR (40)		04/28/09 20:27						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 90.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/28/09 20:27</i>					
Duplicate (9D28050-DUP2)										QC Source: BSD0302-01					Extracted: 04/28/09 15:33				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.02	7.20	mg/kg dry	1x	ND	--	--	--	NR (40)		04/28/09 21:31						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 110%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/28/09 21:31</i>					
Matrix Spike (9D28050-MS1)										QC Source: BSD0301-01					Extracted: 04/28/09 15:33				
Gasoline Range Hydrocarbons	NWTPH-Gx	60.0	1.59	5.68	mg/kg dry	1x	ND	53.5	112%	(75-130)	--	--	04/28/09 23:41						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>04/28/09 23:41</i>					

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 04/30/09 15:12
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28053 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D28053-BLK1)

Extracted: 04/28/09 17:14

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/28/09 21:33	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/28/09 21:33</i>	
<i>Octacosane</i>			<i>113%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D28053-BS1)

Extracted: 04/28/09 17:14

Lube Oil	NWTPH-Dx	64.3	---	25.0	mg/kg wet	1x	--	66.7	96.4%	(63-125)	--	--	04/28/09 21:56	
Diesel Range Hydrocarbons	"	72.7	---	10.0	"	"	--	"	109%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/28/09 21:56</i>	
<i>Octacosane</i>			<i>110%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D28053-DUP1)

QC Source: BSD0302-05

Extracted: 04/28/09 17:14

Lube Oil	NWTPH-Dx	ND	---	30.0	mg/kg dry	1x	ND	--	--	--	27.5% (50)	--	04/28/09 22:19	
Kerosene	"	ND	---	12.0	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.0	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/28/09 22:19</i>	
<i>Octacosane</i>			<i>108%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D28053-MS1)

QC Source: BSD0302-05

Extracted: 04/28/09 17:14

Lube Oil	NWTPH-Dx	71.8	---	30.4	mg/kg dry	1x	4.58	81.2	82.8%	(26-150)	--	--	04/28/09 22:43	
Diesel Range Hydrocarbons	"	78.8	---	12.2	"	"	ND	"	97.1%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>97.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/28/09 22:43</i>	
<i>Octacosane</i>			<i>106%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28059	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D28059-BLK1)								Extracted: 04/28/09 21:17						
Lead	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 09:00	
LCS (9D28059-BS1)								Extracted: 04/28/09 21:17						
Lead	EPA 6020	40.3	---	0.515	mg/kg wet	1x	--	41.2	97.7%	(80-120)	--	--	04/29/09 09:06	
Duplicate (9D28059-DUP1)				QC Source: BSD0301-01				Extracted: 04/28/09 21:17						
Lead	EPA 6020	1.99	---	0.522	mg/kg dry	1x	2.62	--	--	--	27.2% (20)	--	04/29/09 09:25	R3
Matrix Spike (9D28059-MS1)				QC Source: BSD0301-01				Extracted: 04/28/09 21:17						
Lead	EPA 6020	43.7	---	0.544	mg/kg dry	1x	2.62	43.5	94.4%	(75-125)	--	--	04/29/09 09:19	
Post Spike (9D28059-PS1)				QC Source: BSD0301-01				Extracted: 04/28/09 21:17						
Lead	EPA 6020	0.102	---		ug/ml	1x	0.00491	0.100	96.2%	(80-120)	--	--	04/29/09 09:12	

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TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30018 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30018-BLK1)								Extracted: 04/30/09 10:11						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/30/09 13:49	
Blank (9D30018-BLK2)								Extracted: 04/30/09 10:11						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	04/30/09 14:10	
LCS (9D30018-BS1)								Extracted: 04/30/09 10:11						
Lead	EPA 6010B	44.4	---	1.00	mg/l	1x	--	50.0	88.8%	(80-120)	--	--	04/30/09 14:14	
Duplicate (9D30018-DUP1)				QC Source: BSD0302-11				Extracted: 04/30/09 10:11						
Lead	EPA 6010B	60.1	---	1.00	mg/l	1x	57.7	--	--	--	4.14% (20)	--	04/30/09 14:20	
Matrix Spike (9D30018-MS1)				QC Source: BSD0302-11				Extracted: 04/30/09 10:11						
Lead	EPA 6010B	100	---	1.00	mg/l	1x	57.7	50.0	84.8%	(80-120)	--	--	04/30/09 14:17	
Post Spike (9D30018-PS1)				QC Source: BSD0302-11				Extracted: 04/30/09 10:11						
Lead	EPA 6010B	10.0	---		ug/ml	1x	5.77	5.00	85.6%	(75-125)	--	--	04/30/09 14:24	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28034 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D28034-BLK1)

Extracted: 04/28/09 13:10

Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/28/09 16:35	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>128%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>	<i>04/28/09 16:35</i>
	<i>Toluene-d8</i>		<i>91.7%</i>		<i>70-130%</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>		<i>105%</i>		<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9D28034-BS1)

Extracted: 04/28/09 13:10

Benzene	EPA 8260B	0.0472	---	0.00150	mg/kg wet	1x	--	0.0500	94.4%	(70-125)	--	--	04/28/09 15:44	
Ethylbenzene	"	0.0481	---	0.00400	"	"	--	"	96.2%	"	--	--	"	
Methyl tert-butyl ether	"	0.0521	---	0.00100	"	"	--	"	104%	(70-130)	--	--	"	
Naphthalene	"	0.0513	---	0.0100	"	"	--	"	103%	"	--	--	"	
Toluene	"	0.0456	---	0.00150	"	"	--	"	91.1%	(70-125)	--	--	"	
Total Xylenes	"	0.148	---	0.0100	"	"	--	0.150	98.6%	(70-130)	--	--	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>106%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>	<i>04/28/09 15:44</i>
	<i>Toluene-d8</i>		<i>98.2%</i>		<i>70-130%</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>		<i>97.6%</i>		<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9D28034-BSD1)

Extracted: 04/28/09 13:10

Benzene	EPA 8260B	0.0465	---	0.00150	mg/kg wet	1x	--	0.0500	93.1%	(70-125)	1.39% (30)	--	04/28/09 16:09	
Ethylbenzene	"	0.0484	---	0.00400	"	"	--	"	96.8%	"	0.560%	"	"	
Methyl tert-butyl ether	"	0.0483	---	0.00100	"	"	--	"	96.7%	(70-130)	7.49%	"	"	
Naphthalene	"	0.0462	---	0.0100	"	"	--	"	92.3%	"	10.5%	"	"	
Toluene	"	0.0443	---	0.00150	"	"	--	"	88.6%	(70-125)	2.78%	"	"	
Total Xylenes	"	0.143	---	0.0100	"	"	--	0.150	95.1%	(70-130)	3.61%	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>101%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>	<i>04/28/09 16:09</i>
	<i>Toluene-d8</i>		<i>94.2%</i>		<i>70-130%</i>	<i>"</i>	<i>"</i>
	<i>4-BFB</i>		<i>104%</i>		<i>70-130%</i>	<i>"</i>	<i>"</i>

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Kate Haney, Project Manager

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D29003 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D29003-BLK1)													Extracted: 04/29/09 08:13	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 09:58	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>106%</i>		<i>Limits: 70-140%</i>	<i>"</i>						<i>04/29/09 09:58</i>	
<i>Toluene-d8</i>				<i>95.6%</i>		<i>70-130%</i>	<i>"</i>						<i>"</i>	
<i>4-BFB</i>				<i>101%</i>		<i>70-130%</i>	<i>"</i>						<i>"</i>	

LCS (9D29003-BS1)													Extracted: 04/29/09 08:13	
Benzene	EPA 8260B	0.0454	---	0.00150	mg/kg wet	1x	--	0.0500	90.9%	(70-125)	--	--	04/29/09 09:30	
Ethylbenzene	"	0.0470	---	0.00400	"	"	--	"	94.0%	"	--	--	"	
Methyl tert-butyl ether	"	0.0492	---	0.00100	"	"	--	"	98.4%	(70-130)	--	--	"	
Naphthalene	"	0.0462	---	0.0100	"	"	--	"	92.4%	"	--	--	"	
Toluene	"	0.0436	---	0.00150	"	"	--	"	87.2%	(70-125)	--	--	"	
Total Xylenes	"	0.143	---	0.0100	"	"	--	0.150	95.1%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>102%</i>		<i>Limits: 70-140%</i>	<i>"</i>						<i>04/29/09 09:30</i>	
<i>Toluene-d8</i>				<i>94.2%</i>		<i>70-130%</i>	<i>"</i>						<i>"</i>	
<i>4-BFB</i>				<i>105%</i>		<i>70-130%</i>	<i>"</i>						<i>"</i>	

LCS Dup (9D29003-BSD1)													Extracted: 04/29/09 08:13	
Benzene	EPA 8260B	0.0400	---	0.00150	mg/kg wet	1x	--	0.0500	79.9%	(70-125)	12.8%	(30)	04/29/09 09:05	
Ethylbenzene	"	0.0402	---	0.00400	"	"	--	"	80.3%	"	15.7%	"	"	
Methyl tert-butyl ether	"	0.0504	---	0.00100	"	"	--	"	101%	(70-130)	2.53%	"	"	
Naphthalene	"	0.0485	---	0.0100	"	"	--	"	97.0%	"	4.79%	"	"	
Toluene	"	0.0378	---	0.00150	"	"	--	"	75.7%	(70-125)	14.1%	"	"	
Total Xylenes	"	0.122	---	0.0100	"	"	--	0.150	81.5%	(70-130)	15.4%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>106%</i>		<i>Limits: 70-140%</i>	<i>"</i>						<i>04/29/09 09:05</i>	
<i>Toluene-d8</i>				<i>96.0%</i>		<i>70-130%</i>	<i>"</i>						<i>"</i>	
<i>4-BFB</i>				<i>101%</i>		<i>70-130%</i>	<i>"</i>						<i>"</i>	

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28036 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D28036-BLK1)													Extracted: 04/28/09 15:11	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/28/09 17:49	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 87.2% Limits: 75-125% " 04/28/09 17:49</i>														
<i>Toluene-d8 107% 75-125% " "</i>														
<i>4-BFB 109% 75-125% " "</i>														

LCS (9D28036-BS1)													Extracted: 04/28/09 15:11	
Benzene	EPA 8260B	4.56	0.0100	0.0200	mg/kg wet	1x	--	4.00	114%	(75-125)	--	--	04/28/09 16:20	
Ethylbenzene	"	4.12	0.0120	0.100	"	"	--	"	103%	"	--	--	"	
Methyl tert-butyl ether	"	3.83	0.0100	0.0500	"	"	--	"	95.7%	"	--	--	"	
Naphthalene	"	3.51	1.10	2.00	"	"	--	"	87.7%	(60-140)	--	--	"	
Toluene	"	4.32	0.0100	0.100	"	"	--	"	108%	(75-125)	--	--	"	
o-Xylene	"	3.83	0.0170	0.100	"	"	--	"	95.8%	"	--	--	"	
m,p-Xylene	"	7.88	0.0210	0.200	"	"	--	8.00	98.6%	"	--	--	"	
Xylenes (total)	"	11.7	0.0310	0.300	"	"	--	12.0	97.6%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.6% Limits: 75-125% " 04/28/09 16:20</i>														
<i>Toluene-d8 107% 75-125% " "</i>														
<i>4-BFB 105% 75-125% " "</i>														

LCS Dup (9D28036-BSD1)													Extracted: 04/28/09 15:11	
Benzene	EPA 8260B	4.51	0.0100	0.0200	mg/kg wet	1x	--	4.00	113%	(75-125)	1.10%	(20)	04/28/09 16:47	
Ethylbenzene	"	4.06	0.0120	0.100	"	"	--	"	102%	"	1.30%	"	"	
Methyl tert-butyl ether	"	3.90	0.0100	0.0500	"	"	--	"	97.6%	"	1.97%	"	"	
Naphthalene	"	3.60	1.10	2.00	"	"	--	"	89.9%	(60-140)	2.48%	"	"	
Toluene	"	4.26	0.0100	0.100	"	"	--	"	107%	(75-125)	1.24%	"	"	
o-Xylene	"	3.79	0.0170	0.100	"	"	--	"	94.7%	"	1.13%	"	"	
m,p-Xylene	"	7.65	0.0210	0.200	"	"	--	8.00	95.6%	"	3.00%	"	"	
Xylenes (total)	"	11.4	0.0310	0.300	"	"	--	12.0	95.3%	"	2.38%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.4% Limits: 75-125% " 04/28/09 16:47</i>														
<i>Toluene-d8 105% 75-125% " "</i>														
<i>4-BFB 104% 75-125% " "</i>														

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D29005 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D29005-BLK1)													Extracted: 04/29/09 08:57	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 11:56	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 90.9% Limits: 75-125% " 04/29/09 11:56</i>														
<i>Toluene-d8 106% 75-125% " "</i>														
<i>4-BFB 105% 75-125% " "</i>														

LCS (9D29005-BS1)													Extracted: 04/29/09 08:57	
Benzene	EPA 8260B	4.49	0.0100	0.0200	mg/kg wet	1x	--	4.00	112%	(75-125)	--	--	04/29/09 10:27	
Ethylbenzene	"	4.28	0.0120	0.100	"	"	--	"	107%	"	--	--	"	
Methyl tert-butyl ether	"	3.97	0.0100	0.0500	"	"	--	"	99.3%	"	--	--	"	
Naphthalene	"	3.70	1.10	2.00	"	"	--	"	92.5%	(60-140)	--	--	"	
Toluene	"	4.36	0.0100	0.100	"	"	--	"	109%	(75-125)	--	--	"	
o-Xylene	"	4.20	0.0170	0.100	"	"	--	"	105%	"	--	--	"	
m,p-Xylene	"	8.38	0.0210	0.200	"	"	--	8.00	105%	"	--	--	"	
Xylenes (total)	"	12.6	0.0310	0.300	"	"	--	12.0	105%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 89.9% Limits: 75-125% " 04/29/09 10:27</i>														
<i>Toluene-d8 103% 75-125% " "</i>														
<i>4-BFB 101% 75-125% " "</i>														

LCS Dup (9D29005-BSD1)													Extracted: 04/29/09 08:57	
Benzene	EPA 8260B	4.23	0.0100	0.0200	mg/kg wet	1x	--	4.00	106%	(75-125)	5.83% (20)		04/29/09 10:54	
Ethylbenzene	"	4.01	0.0120	0.100	"	"	--	"	100%	"	6.47%	"	"	
Methyl tert-butyl ether	"	4.06	0.0100	0.0500	"	"	--	"	102%	"	2.26%	"	"	
Naphthalene	"	3.74	1.10	2.00	"	"	--	"	93.6%	(60-140)	1.18%	"	"	
Toluene	"	4.10	0.0100	0.100	"	"	--	"	103%	(75-125)	6.21%	"	"	
o-Xylene	"	3.79	0.0170	0.100	"	"	--	"	94.8%	"	10.1%	"	"	
m,p-Xylene	"	7.69	0.0210	0.200	"	"	--	8.00	96.2%	"	8.55%	"	"	
Xylenes (total)	"	11.5	0.0310	0.300	"	"	--	12.0	95.7%	"	9.05%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.2% Limits: 75-125% " 04/29/09 10:54</i>														
<i>Toluene-d8 105% 75-125% " "</i>														
<i>4-BFB 103% 75-125% " "</i>														

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	04/30/09 15:12
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D28021 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D28021-BLK1)										Extracted: 04/28/09 11:43				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/29/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the kerosene range are due to overlap from a diesel range product.
- A-01a - Results in the kerosene range are partially due to overlap from a residual range product.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- Z3 - The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- Z9 - Unable to calculate surrogate recovery due to matrix interference.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

04/30/09 15:12

Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.
Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.
Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA10302**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST					
REPORT TO: wmep staff		P.O. NUMBER:		in Business Days *					
ADDRESS:		PROJECT NAME: wmep Phase II		Organic & Inorganic Analyses					
PHONE:		PROJECT NUMBER:		Petroleum Hydrocarbon Analyses					
PROJECT NAME: wmep Phase II		REQUESTED ANALYSES		STD.					
PROJECT NUMBER:		PRESERVATIVE		STD.					
SAMPLED BY: Matthew McKibbin		OTHER		OTHER					
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		Specify: 24-hr					
				* Turnaround Requests less than standard may incur Rush Charges.					
1	AREA1-A2-14	428-09	1310	S	4	Matrix (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/O ID
2	" - A3-14	"	1320	X				Silt w/ sand + gravel	01
3	" - B2-14	"	1330	X				PEP = 0 ppm	02
4	" - B3-14	"	1340	X				Silt w/ sand + gravel	03
5	" - C2-14	"	1350	X				0.7 ppm	04
6	" - C3-14	"	1400	X				Sand w/ silt	05
7	" - D2-14	"	1410	X				Sand w/ silt	06
8	" - D3-14	"	1420	X				Sand w/ silt + gravel	07
9	" - H12-17	"	1515	X				1.3 ppm	08
10	H12-7	"	1520	X				Sand w/ silt	09
RELEASED BY: Matthew McKibbin		DATE: 4-28-09		RECEIVED BY: [Signature]		DATE: 4/28/09		FIRM: TA-SEA	
PRINT NAME: Matthew McKibbin		TIME: 1530		PRINT NAME:		TIME: 1600		FIRM: TA-SEA	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:		FIRM:	
PRINT NAME:		TIME:		PRINT NAME:		TIME:		FIRM:	
ADDITIONAL REMARKS:		FIRM: wms		FIRM: Francisco Luna, Jr.		FIRM:		FIRM:	
TEMP: 1401		FIRM: Lab 1645		FIRM:		FIRM:		FIRM:	
PAGE OF		FIRM: Lab 1645		FIRM:		FIRM:		FIRM:	
PAGE OF		FIRM: Lab 1645		FIRM:		FIRM:		FIRM:	

TEUF samples w/ total lead 2500 mg/kg

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BA0032**

CLIENT:		INVOICE TO:		TURNAROUND REQUEST			
REPORT TO: ADDRESS: PHONE: PROJECT NAME: PROJECT NUMBER: SAMPLED BY:		PAGE 2 of 2 PRESERVATIVE REQUESTED ANALYSES		in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses STD. <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify:			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TESTS	RESULTS	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA. WO ID
1 Areal - H11-12	4-29-09 / 1530	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au	S	4		11
2 " H11-9	" / 1540	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au		4		12
3 " D11-12	" / 1550	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au		5		13
4 " D9-9	" / 1555	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au		1		14
5 " D9-12	" / 1600	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au	GC, MET, Pb, Cu, Zn, Cd, Ni, Cr, Mn, Fe, As, Hg, Se, V, Co, Mo, W, Bi, Sb, Sn, Ti, Zr, Hf, Nb, Ta, Pt, Pd, Ag, Au		1		15
6							
7							
8							
9							
10							

RELEASED BY: *[Signature]* DATE: 4-28-09 RECEIVED BY: *[Signature]* DATE: 4/28/09
 PRINT NAME: Matthew Wiggins FIRM: WRS PRINT NAME: Francisco Luna, Jr. FIRM: TA-SEA TIME: 1600
 RECEIVED BY: PRINT NAME: ADDITIONAL REMARKS: " TLP Samples of Total Lead 2500 mg/kg " TEMP: 4.1°C
 FIRM: " Lab 1645 w/c PAGES 2 OF 2

TAT: _____ Paperwork to PM - Date: _____ Time: _____

Page Time & Initials: CB HH

Non-Conformances?

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: (applies to temp at receipt)	Logged-in By:	Unpacked/ Labeled by:	Label Review by:	Cooler ID: _____
Date: <u>4/28/09</u>	Date: <u>4/28</u>	Date: <u>4/28</u>	Date: _____	Work Order No. <u>302</u> <u>600030+</u>
Time: <u>1645</u>	Time: <u>10:47</u>	Time: <u>11:50</u>	Time: _____	Client: _____
Initials: <u>FL</u>	Initials: <u>CB</u>	Initials: <u>QJ</u>	Initials: _____	Project: _____

<u>X</u> Cooler	_____ Ship Container	_____ Sign By	_____ Bubble Bags	_____ Styrofoam
_____ Box	_____ On Bottles	_____ Date	_____ Foam Packs	
_____ None/Other _____	<u>X</u> None		<u>X</u> None/Other <u>Bubble Wrap</u>	

Refrigerant:	Soil Stir Bars/Encores:	Received Via: Bill#:
<u>X</u> Gel Ice Pack _____	Placed in freezer #46:	_____ Fed Ex _____ Client
_____ Loose Ice _____	<u>Y</u> or N or NA	_____ UPS <u>X</u> TA Courier
_____ None/Other _____	Initial/date/time <u>CB 4/28 1</u>	_____ DHL _____ Mid Valley
		_____ Senvoy _____ TDP
		_____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 4.1 °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
(initial/date/time): _____
Comments: _____

Sample Containers:	ID	ID
Intact? <u>Y</u> or N _____	Metals Preserved? Y or N or <u>NA</u> _____	
Provided by TA? <u>Y</u> or N _____	Client QAPP Preserved? Y or N or <u>NA</u> _____	
Correct Type? <u>Y</u> or N _____	Adequate Volume? <u>Y</u> or N _____	
#Containers match COC? <u>Y</u> or N _____	(for tests requested)	
IDs/time/date match COC? <u>Y</u> or N _____	Water VOAs: Headspace? Y or N or <u>NA</u> _____	
Hold Times in hold? <u>Y</u> or N _____	Comments: _____	

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? Y or N

May 01, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/29/09 15:30.
The following list is a summary of the Work Orders contained in this report, generated on 05/01/09
16:34.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0323	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-B4-9	BSD0323-01	Soil	04/29/09 08:30	04/29/09 15:30
AREA1-C5-7	BSD0323-03	Soil	04/29/09 10:00	04/29/09 15:30
AREA1-D5-9	BSD0323-04	Soil	04/29/09 10:10	04/29/09 15:30
AREA1-E4-9	BSD0323-05	Soil	04/29/09 11:20	04/29/09 15:30
AREA1-E2-14	BSD0323-06	Soil	04/29/09 13:50	04/29/09 15:30
AREA1-E3-14	BSD0323-07	Soil	04/29/09 14:00	04/29/09 15:30
AREA1-F2-14	BSD0323-08	Soil	04/29/09 14:10	04/29/09 15:30
AREA1-F3-14	BSD0323-09	Soil	04/29/09 14:20	04/29/09 15:30
AREA1-G2-14	BSD0323-10	Soil	04/29/09 14:30	04/29/09 15:30
AREA1-G3-14	BSD0323-11	Soil	04/29/09 14:40	04/29/09 15:30
DUP-12	BSD0323-12	Soil	04/29/09 15:00	04/29/09 15:30

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-01 (AREA1-B4-9)		Soil		Sampled: 04/29/09 08:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.76	6.30	mg/kg dry	1x	9D29033	04/29/09 16:04	04/29/09 18:55	M1
Surrogate(s): 4-BFB (FID)			132%		75 - 140 %	"			"	
BSD0323-03 (AREA1-C5-7)		Soil		Sampled: 04/29/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	1.81	1.56	5.57	mg/kg dry	1x	9D29033	04/29/09 16:04	04/29/09 20:00	J
Surrogate(s): 4-BFB (FID)			123%		75 - 140 %	"			"	
BSD0323-04 (AREA1-D5-9)		Soil		Sampled: 04/29/09 10:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.17	1.67	5.97	mg/kg dry	1x	9D29033	04/29/09 16:04	04/29/09 21:04	J
Surrogate(s): 4-BFB (FID)			117%		75 - 140 %	"			"	
BSD0323-05 (AREA1-E4-9)		Soil		Sampled: 04/29/09 11:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	1.55	1.40	4.99	mg/kg dry	1x	9D29033	04/29/09 16:04	04/29/09 21:36	J
Surrogate(s): 4-BFB (FID)			119%		75 - 140 %	"			"	
BSD0323-06 (AREA1-E2-14)		Soil		Sampled: 04/29/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.10	1.77	6.33	mg/kg dry	1x	9D29033	04/29/09 16:04	04/29/09 22:08	J
Surrogate(s): 4-BFB (FID)			123%		75 - 140 %	"			"	
BSD0323-07 (AREA1-E3-14)		Soil		Sampled: 04/29/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.69	6.04	mg/kg dry	1x	9D29033	04/29/09 16:04	04/30/09 00:16	
Surrogate(s): 4-BFB (FID)			120%		75 - 140 %	"			"	
BSD0323-08 (AREA1-F2-14)		Soil		Sampled: 04/29/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.45	2.02	7.21	mg/kg dry	1x	9D29033	04/29/09 16:04	04/30/09 00:48	J
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	"			"	
BSD0323-09 (AREA1-F3-14)		Soil		Sampled: 04/29/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.93	6.88	mg/kg dry	1x	9D29033	04/29/09 16:04	04/30/09 01:20	
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/01/09 16:34
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-10 (AREA1-G2-14)		Soil		Sampled: 04/29/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	40.4	10.7	38.3	mg/kg dry	1x	9D29033	04/29/09 16:04	04/30/09 01:52	
<i>Surrogate(s): 4-BFB (FID)</i>			157%		75 - 140 %	"				ZX
BSD0323-11 (AREA1-G3-14)		Soil		Sampled: 04/29/09 14:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	32.5	8.09	28.9	mg/kg dry	1x	9D29033	04/29/09 16:04	04/30/09 02:23	
<i>Surrogate(s): 4-BFB (FID)</i>			156%		75 - 140 %	"				ZX
BSD0323-12 (DUP-12)		Soil		Sampled: 04/29/09 15:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	31.8	7.59	27.1	mg/kg dry	1x	9D29033	04/29/09 16:04	04/30/09 02:55	
<i>Surrogate(s): 4-BFB (FID)</i>			151%		75 - 140 %	"				ZX

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/01/09 16:34
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-01 (AREA1-B4-9)		Soil		Sampled: 04/29/09 08:30						
Lube Oil	NWTPH-Dx	ND	----	33.0	mg/kg dry	1x	9D29034	04/29/09 16:17	04/29/09 20:58	
Kerosene	"	ND	----	13.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			98.5%		54 - 148 %	"				"
<i>Octacosane</i>			95.8%		62 - 142 %	"				"
BSD0323-03 (AREA1-C5-7)		Soil		Sampled: 04/29/09 10:00						
Lube Oil	NWTPH-Dx	ND	----	30.1	mg/kg dry	1x	9D29034	04/29/09 16:17	04/29/09 21:21	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.9%		54 - 148 %	"				"
<i>Octacosane</i>			93.9%		62 - 142 %	"				"
BSD0323-04 (AREA1-D5-9)		Soil		Sampled: 04/29/09 10:10						
Lube Oil	NWTPH-Dx	ND	----	30.0	mg/kg dry	1x	9D29034	04/29/09 16:17	04/29/09 21:45	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			104%		54 - 148 %	"				"
<i>Octacosane</i>			97.7%		62 - 142 %	"				"
BSD0323-05 (AREA1-E4-9)		Soil		Sampled: 04/29/09 11:20						
Lube Oil	NWTPH-Dx	ND	----	29.4	mg/kg dry	1x	9D29034	04/29/09 16:17	04/29/09 22:08	
Kerosene	"	ND	----	11.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.3%		54 - 148 %	"				"
<i>Octacosane</i>			91.3%		62 - 142 %	"				"
BSD0323-06 (AREA1-E2-14)		Soil		Sampled: 04/29/09 13:50						
Lube Oil	NWTPH-Dx	ND	----	31.0	mg/kg dry	1x	9D29034	04/29/09 16:17	04/29/09 22:32	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.4%		54 - 148 %	"				"
<i>Octacosane</i>			93.6%		62 - 142 %	"				"

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-07 (AREA1-E3-14)		Soil		Sampled: 04/29/09 14:00						
Lube Oil	NWTPH-Dx	ND	----	30.8	mg/kg dry	1x	9D29034	04/29/09 16:17	04/30/09 00:29	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.2%		54 - 148 %	"				"
<i>Octacosane</i>			95.3%		62 - 142 %	"				"
BSD0323-08 (AREA1-F2-14)		Soil		Sampled: 04/29/09 14:10						
Lube Oil	NWTPH-Dx	ND	----	33.4	mg/kg dry	1x	9D29034	04/29/09 16:17	04/30/09 00:52	
Kerosene	"	ND	----	13.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			98.0%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"
BSD0323-09 (AREA1-F3-14)		Soil		Sampled: 04/29/09 14:20						
Lube Oil	NWTPH-Dx	181	----	32.5	mg/kg dry	1x	9D29034	04/29/09 16:17	04/30/09 01:15	Q1
Kerosene	"	31.2	----	13.0	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	127	----	13.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			97.7%		54 - 148 %	"				"
<i>Octacosane</i>			99.9%		62 - 142 %	"				"
BSD0323-10 (AREA1-G2-14)		Soil		Sampled: 04/29/09 14:30						
Lube Oil	NWTPH-Dx	98.0	----	96.5	mg/kg dry	1x	9D29034	04/29/09 16:17	04/30/09 01:39	Q1
Kerosene	"	ND	----	38.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	80.6	----	38.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			93.0%		54 - 148 %	"				"
<i>Octacosane</i>			94.2%		62 - 142 %	"				"
BSD0323-11 (AREA1-G3-14)		Soil		Sampled: 04/29/09 14:40						
Kerosene	NWTPH-Dx	409	----	32.3	mg/kg dry	1x	9D29034	04/29/09 16:17	04/30/09 02:02	A-01
Diesel Range Hydrocarbons	"	2560	----	32.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			92.4%		54 - 148 %	"				"
<i>Octacosane</i>			90.9%		62 - 142 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/01/09 16:34
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-11RE1 (AREA1-G3-14)		Soil		Sampled: 04/29/09 14:40						
Lube Oil	NWTPH-Dx	5060	----	808	mg/kg dry	10x	9D29034	04/29/09 16:17	04/30/09 09:12	A-01a
Surrogate(s): 2-FBP			91.6%		54 - 148 %	"				"
Octacosane			108%		62 - 142 %	"				"
BSD0323-12 (DUP-12)		Soil		Sampled: 04/29/09 15:00						
Kerosene	NWTPH-Dx	291	----	28.9	mg/kg dry	1x	9D29034	04/29/09 16:17	04/30/09 02:25	A-01
Diesel Range Hydrocarbons	"	1840	----	28.9	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			95.1%		54 - 148 %	"				"
Octacosane			95.2%		62 - 142 %	"				"
BSD0323-12RE1 (DUP-12)		Soil		Sampled: 04/29/09 15:00						
Lube Oil	NWTPH-Dx	3220	----	361	mg/kg dry	5x	9D29034	04/29/09 16:17	04/30/09 09:36	A-01a
Surrogate(s): 2-FBP			95.5%		54 - 148 %	"				"
Octacosane			95.9%		62 - 142 %	"				"

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-01 (AREA1-B4-9)		Soil			Sampled: 04/29/09 08:30					
Lead	EPA 6020	8.18	----	0.611	mg/kg dry	1x	9D30003	04/30/09 05:48	04/30/09 08:26	R3
BSD0323-03 (AREA1-C5-7)		Soil			Sampled: 04/29/09 10:00					
Lead	EPA 6020	3.05	----	0.511	mg/kg dry	1x	9D30003	04/30/09 05:48	04/30/09 08:32	
BSD0323-04 (AREA1-D5-9)		Soil			Sampled: 04/29/09 10:10					
Lead	EPA 6020	2.74	----	0.536	mg/kg dry	1x	9D30003	04/30/09 05:48	04/30/09 08:57	
BSD0323-05 (AREA1-E4-9)		Soil			Sampled: 04/29/09 11:20					
Lead	EPA 6020	2.43	----	0.397	mg/kg dry	1x	9D30003	04/30/09 05:48	04/30/09 09:03	
BSD0323-06 (AREA1-E2-14)		Soil			Sampled: 04/29/09 13:50					
Lead	EPA 6020	10.9	----	0.319	mg/kg dry	1x	9D30003	04/30/09 05:48	04/30/09 09:10	
BSD0323-07 (AREA1-E3-14)		Soil			Sampled: 04/29/09 14:00					
Lead	EPA 6020	24.5	----	0.374	mg/kg dry	1x	9D30003	04/30/09 05:48	04/30/09 09:16	
BSD0323-08 (AREA1-F2-14)		Soil			Sampled: 04/29/09 14:10					
Lead	EPA 6020	64.1	----	0.458	mg/kg dry	1x	9D30003	04/30/09 05:48	04/30/09 09:22	
BSD0323-09 (AREA1-F3-14)		Soil			Sampled: 04/29/09 14:20					
Lead	EPA 6020	35.6	----	0.380	mg/kg dry	1x	9D30003	04/30/09 05:48	04/30/09 09:29	
BSD0323-10 (AREA1-G2-14)		Soil			Sampled: 04/29/09 14:30					
Lead	EPA 6020	7.65	----	1.12	mg/kg dry	1x	9D30003	04/30/09 05:48	04/30/09 09:35	
BSD0323-11RE1 (AREA1-G3-14)		Soil			Sampled: 04/29/09 14:40					
Lead	EPA 6020	2050	----	13.4	mg/kg dry	10x	9D30003	04/30/09 05:48	04/30/09 09:54	
BSD0323-12RE1 (DUP-12)		Soil			Sampled: 04/29/09 15:00					
Lead	EPA 6020	881	----	4.94	mg/kg dry	5x	9D30003	04/30/09 05:48	04/30/09 10:32	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/01/09 16:34
	Project Manager:	Ty Griffith	

TCLP Metals by EPA 1311/6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-11 (AREA1-G3-14)		Soil					Sampled: 04/29/09 14:40			
Lead	EPA 6010B	1.56	----	1.00	mg/l	1x	9E01004	05/01/09 09:04	05/01/09 15:12	
BSD0323-12 (DUP-12)		Soil					Sampled: 04/29/09 15:00			
Lead	EPA 6010B	2.13	----	1.00	mg/l	1x	9E01004	05/01/09 09:04	05/01/09 15:16	

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0323-01 (AREA1-B4-9)											
		Soil		Sampled: 04/29/09 08:30							P13
Benzene	EPA 8260B	ND	----	0.000988	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 18:04		
Ethylbenzene	"	ND	----	0.00264	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000659	"	"	"	"	"		
Naphthalene	"	ND	----	0.00659	"	"	"	"	"		
Toluene	"	ND	----	0.000988	"	"	"	"	"		
o-Xylene	"	ND	----	0.00329	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00329	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00659	"	"	"	"	"		

Surrogate(s): 1,2-DCA-d4 123% 70 - 140 % "
 Toluene-d8 94.1% 70 - 130 % "
 4-BFB 103% 70 - 130 % "

BSD0323-03 (AREA1-C5-7)											
		Soil		Sampled: 04/29/09 10:00							
Benzene	EPA 8260B	ND	----	0.000951	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 18:30		
Ethylbenzene	"	ND	----	0.00254	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000634	"	"	"	"	"		
Naphthalene	"	ND	----	0.00634	"	"	"	"	"		
Toluene	"	ND	----	0.000951	"	"	"	"	"		
o-Xylene	"	ND	----	0.00317	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00317	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00634	"	"	"	"	"		

Surrogate(s): 1,2-DCA-d4 126% 70 - 140 % "
 Toluene-d8 91.9% 70 - 130 % "
 4-BFB 104% 70 - 130 % "

BSD0323-04 (AREA1-D5-9)											
		Soil		Sampled: 04/29/09 10:10							P13
Benzene	EPA 8260B	0.00209	----	0.000640	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 18:55		
Ethylbenzene	"	0.00384	----	0.00171	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000427	"	"	"	"	"		
Naphthalene	"	ND	----	0.00427	"	"	"	"	"		
Toluene	"	ND	----	0.000640	"	"	"	"	"		
o-Xylene	"	ND	----	0.00213	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00213	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00427	"	"	"	"	"		

Surrogate(s): 1,2-DCA-d4 126% 70 - 140 % "
 Toluene-d8 92.0% 70 - 130 % "
 4-BFB 104% 70 - 130 % "

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0323-05 (AREA1-E4-9)		Soil		Sampled: 04/29/09 11:20							P13
Benzene	EPA 8260B	ND	----	0.000785	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 19:20		
Ethylbenzene	"	ND	----	0.00209	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000524	"	"	"	"	"		
Naphthalene	"	ND	----	0.00524	"	"	"	"	"		
Toluene	"	ND	----	0.000785	"	"	"	"	"		
o-Xylene	"	ND	----	0.00262	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00262	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00524	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				124%		70 - 140 %	"			"	
<i>Toluene-d8</i>				94.3%		70 - 130 %	"			"	
<i>4-BFB</i>				100%		70 - 130 %	"			"	
BSD0323-06 (AREA1-E2-14)		Soil		Sampled: 04/29/09 13:50							
Benzene	EPA 8260B	ND	----	0.000970	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 19:46		
Ethylbenzene	"	ND	----	0.00259	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000647	"	"	"	"	"		
Naphthalene	"	ND	----	0.00647	"	"	"	"	"		
Toluene	"	ND	----	0.000970	"	"	"	"	"		
o-Xylene	"	ND	----	0.00323	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00323	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00647	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				126%		70 - 140 %	"			"	
<i>Toluene-d8</i>				92.3%		70 - 130 %	"			"	
<i>4-BFB</i>				105%		70 - 130 %	"			"	
BSD0323-07 (AREA1-E3-14)		Soil		Sampled: 04/29/09 14:00							
Benzene	EPA 8260B	ND	----	0.00101	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 20:12		
Ethylbenzene	"	ND	----	0.00269	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000673	"	"	"	"	"		
Naphthalene	"	ND	----	0.00673	"	"	"	"	"		
Toluene	"	ND	----	0.00101	"	"	"	"	"		
o-Xylene	"	ND	----	0.00336	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00336	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00673	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				126%		70 - 140 %	"			"	
<i>Toluene-d8</i>				95.0%		70 - 130 %	"			"	
<i>4-BFB</i>				104%		70 - 130 %	"			"	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-08 (AREA1-F2-14)		Soil		Sampled: 04/29/09 14:10						
Benzene	EPA 8260B	0.00422	----	0.00111	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 20:37	
Ethylbenzene	"	0.00574	----	0.00296	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000740	"	"	"	"	"	
Naphthalene	"	ND	----	0.00740	"	"	"	"	"	
Toluene	"	ND	----	0.00111	"	"	"	"	"	
o-Xylene	"	ND	----	0.00370	"	"	"	"	"	
m,p-Xylene	"	0.00720	----	0.00370	"	"	"	"	"	
Total Xylenes	"	0.00927	----	0.00740	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>126%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>100%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>108%</i>	<i>70 - 130 %</i>						
BSD0323-09 (AREA1-F3-14)		Soil		Sampled: 04/29/09 14:20						P13
Benzene	EPA 8260B	ND	----	0.000855	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 21:03	
Ethylbenzene	"	ND	----	0.00228	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.000570	"	"	"	"	"	
Naphthalene	"	ND	----	0.00570	"	"	"	"	"	
Toluene	"	ND	----	0.000855	"	"	"	"	"	I
o-Xylene	"	ND	----	0.00285	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.00285	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.00570	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>125%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>93.2%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>99.6%</i>	<i>70 - 130 %</i>						
BSD0323-10 (AREA1-G2-14)		Soil		Sampled: 04/29/09 14:30						
Benzene	EPA 8260B	ND	----	0.00418	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 21:28	
Methyl tert-butyl ether	"	ND	----	0.00279	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>114%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>122%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>127%</i>	<i>70 - 130 %</i>						

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSD0323-11 (AREA1-G3-14)		Soil		Sampled: 04/29/09 14:40							
Benzene	EPA 8260B	0.0132	----	0.00288	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 21:54		
Methyl tert-butyl ether	"	ND	----	0.00192	"	"	"	"	"		
Naphthalene	"	ND	----	0.0192	"	"	"	"	"	I	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>112%</i>		<i>70 - 140 %</i>	"					
	<i>Toluene-d8</i>		<i>117%</i>		<i>70 - 130 %</i>	"				I	
	<i>4-BFB</i>		<i>125%</i>		<i>70 - 130 %</i>	"				I	
BSD0323-12 (DUP-12)		Soil		Sampled: 04/29/09 15:00							P13
Benzene	EPA 8260B	0.0142	----	0.00214	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 22:20		
Methyl tert-butyl ether	"	ND	----	0.00143	"	"	"	"	"		
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>118%</i>		<i>70 - 140 %</i>	"					
	<i>Toluene-d8</i>		<i>134%</i>		<i>70 - 130 %</i>	"				I, ZX	
	<i>4-BFB</i>		<i>141%</i>		<i>70 - 130 %</i>	"				I, ZX	
BSD0323-12RE1 (DUP-12)		Soil		Sampled: 04/29/09 15:00							
Naphthalene	EPA 8260B	ND	----	0.0161	mg/kg dry	1x	9D29007	04/29/09 17:45	04/29/09 22:45	I	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>112%</i>		<i>70 - 140 %</i>	"					
	<i>Toluene-d8</i>		<i>119%</i>		<i>70 - 130 %</i>	"				I	
	<i>4-BFB</i>		<i>137%</i>		<i>70 - 130 %</i>	"				I, ZX	

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-10 (AREA1-G2-14)		Soil			Sampled: 04/29/09 14:30					
Ethylbenzene	EPA 8260B	0.175	0.0956	0.797	mg/kg dry	1x	9D29030	04/29/09 18:00	04/29/09 22:24	J
Naphthalene	"	ND	8.76	15.9	"	"	"	"	"	
Toluene	"	ND	0.0797	0.797	"	"	"	"	"	
o-Xylene	"	ND	0.135	0.797	"	"	"	"	"	
m,p-Xylene	"	0.231	0.167	1.59	"	"	"	"	"	J
Xylenes (total)	"	ND	0.247	2.39	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	95.2%	75 - 125 %	"	"
	<i>Toluene-d8</i>	96.1%	75 - 125 %	"	"
	<i>4-BFB</i>	98.1%	75 - 125 %	"	"

BSD0323-11 (AREA1-G3-14)		Soil			Sampled: 04/29/09 14:40					
Ethylbenzene	EPA 8260B	0.260	0.0693	0.578	mg/kg dry	1x	9D29030	04/29/09 18:00	04/29/09 22:51	J
Toluene	"	0.0867	0.0578	0.578	"	"	"	"	"	J
o-Xylene	"	ND	0.0982	0.578	"	"	"	"	"	
m,p-Xylene	"	0.364	0.121	1.16	"	"	"	"	"	J
Xylenes (total)	"	0.451	0.179	1.73	"	"	"	"	"	J

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	96.8%	75 - 125 %	"	"
	<i>Toluene-d8</i>	96.0%	75 - 125 %	"	"
	<i>4-BFB</i>	99.0%	75 - 125 %	"	"

BSD0323-12 (DUP-12)		Soil			Sampled: 04/29/09 15:00					
Ethylbenzene	EPA 8260B	0.136	0.0628	0.524	mg/kg dry	1x	9D29030	04/29/09 18:00	04/29/09 23:17	J
Toluene	"	0.0681	0.0524	0.524	"	"	"	"	"	J
o-Xylene	"	ND	0.0890	0.524	"	"	"	"	"	
m,p-Xylene	"	0.215	0.110	1.05	"	"	"	"	"	J
Xylenes (total)	"	0.215	0.162	1.57	"	"	"	"	"	J

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	97.4%	75 - 125 %	"	"
	<i>Toluene-d8</i>	97.6%	75 - 125 %	"	"
	<i>4-BFB</i>	101%	75 - 125 %	"	"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-01 (AREA1-B4-9)		Soil								Sampled: 04/29/09 08:30
Dry Weight	BSOPSP003R0 8	75.7	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-03 (AREA1-C5-7)		Soil								Sampled: 04/29/09 10:00
Dry Weight	BSOPSP003R0 8	82.2	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-04 (AREA1-D5-9)		Soil								Sampled: 04/29/09 10:10
Dry Weight	BSOPSP003R0 8	82.5	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-05 (AREA1-E4-9)		Soil								Sampled: 04/29/09 11:20
Dry Weight	BSOPSP003R0 8	84.5	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-06 (AREA1-E2-14)		Soil								Sampled: 04/29/09 13:50
Dry Weight	BSOPSP003R0 8	79.4	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-07 (AREA1-E3-14)		Soil								Sampled: 04/29/09 14:00
Dry Weight	BSOPSP003R0 8	80.5	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-08 (AREA1-F2-14)		Soil								Sampled: 04/29/09 14:10
Dry Weight	BSOPSP003R0 8	74.8	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-09 (AREA1-F3-14)		Soil								Sampled: 04/29/09 14:20
Dry Weight	BSOPSP003R0 8	75.7	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-10 (AREA1-G2-14)		Soil								Sampled: 04/29/09 14:30
Dry Weight	BSOPSP003R0 8	25.5	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-11 (AREA1-G3-14)		Soil								Sampled: 04/29/09 14:40
Dry Weight	BSOPSP003R0 8	30.8	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	
BSD0323-12 (DUP-12)		Soil								Sampled: 04/29/09 15:00

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	Project Number:	33759381	05/01/09 16:34
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0323-12 (DUP-12)		Soil			Sampled: 04/29/09 15:00					
Dry Weight	BSOPSP003R0 8	34.7	----	1.00	%	1x	9D29025	04/29/09 15:15	04/30/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D29033 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D29033-BLK1)													Extracted: 04/29/09 16:04			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 17:51			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/29/09 17:51</i>		
LCS (9D29033-BS1)													Extracted: 04/29/09 16:04			
Gasoline Range Hydrocarbons	NWTPH-Gx	50.5	1.40	5.00	mg/kg wet	1x	--	50.0	101%	(80-120)	--	--	04/29/09 18:23			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 106%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/29/09 18:23</i>		
Duplicate (9D29033-DUP1)													QC Source: BSD0323-01		Extracted: 04/29/09 16:04	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.76	6.30	mg/kg dry	1x	ND	--	--	--	NR (40)		04/29/09 19:27			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 134%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/29/09 19:27</i>		
Duplicate (9D29033-DUP2)													QC Source: BSD0323-03		Extracted: 04/29/09 16:04	
Gasoline Range Hydrocarbons	NWTPH-Gx	2.15	1.56	5.57	mg/kg dry	1x	1.81	--	--	--	17.1% (40)		04/29/09 20:32	J		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 120%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/29/09 20:32</i>		
Matrix Spike (9D29033-MS1)													QC Source: BSD0323-01		Extracted: 04/29/09 16:04	
Gasoline Range Hydrocarbons	NWTPH-Gx	68.9	1.76	6.30	mg/kg dry	1x	ND	47.0	147%	(75-130)	--	--	04/29/09 22:40	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 139%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/29/09 22:40</i>		

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Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 05/01/09 16:34

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D29034 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D29034-BLK1)													Extracted: 04/29/09 16:17			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 19:00			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>88.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/29/09 19:00</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>91.5%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
LCS (9D29034-BS1)													Extracted: 04/29/09 16:17			
Lube Oil	NWTPH-Dx	60.7	---	25.0	mg/kg wet	1x	--	66.7	91.1%	(63-125)	--	--	04/29/09 19:23			
Diesel Range Hydrocarbons	"	68.7	---	10.0	"	"	--	"	103%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/29/09 19:23</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>99.4%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9D29034-DUP1)													QC Source: BSD0323-06		Extracted: 04/29/09 16:17	
Lube Oil	NWTPH-Dx	ND	---	31.2	mg/kg dry	1x	ND	--	--	--	120%	(50)	04/29/09 19:47	R4		
Kerosene	"	ND	---	12.5	"	"	ND	--	--	--	75.3%	"	"	R4		
Diesel Range Hydrocarbons	"	ND	---	12.5	"	"	ND	--	--	--	87.6%	"	"	R4		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/29/09 19:47</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>95.6%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9D29034-DUP2)													QC Source: BSD0323-09		Extracted: 04/29/09 16:17	
Lube Oil	NWTPH-Dx	54.2	---	32.7	mg/kg dry	1x	181	--	--	--	108%	(50)	04/29/09 20:11	R3		
Kerosene	"	ND	---	13.1	"	"	31.2	--	--	--	136%	"	"	R4		
Diesel Range Hydrocarbons	"	30.9	---	13.1	"	"	127	--	--	--	121%	"	"	R3		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/29/09 20:11</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>93.6%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9D29034-MS1)													QC Source: BSD0323-06		Extracted: 04/29/09 16:17	
Lube Oil	NWTPH-Dx	83.5	---	31.0	mg/kg dry	1x	4.06	82.5	96.2%	(26-150)	--	--	04/29/09 20:34			
Diesel Range Hydrocarbons	"	92.3	---	12.4	"	"	4.05	"	107%	(46-155)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/29/09 20:34</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>96.6%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30003 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30003-BLK1)								Extracted: 04/30/09 05:48						
Lead	EPA 6020	ND	---	0.490	mg/kg wet	1x	--	--	--	--	--	--	04/30/09 07:54	
LCS (9D30003-BS1)								Extracted: 04/30/09 05:48						
Lead	EPA 6020	40.6	---	0.495	mg/kg wet	1x	--	39.6	103%	(80-120)	--	--	04/30/09 08:01	
Duplicate (9D30003-DUP1)				QC Source: BSD0323-01				Extracted: 04/30/09 05:48						
Lead	EPA 6020	10.4	---	0.520	mg/kg dry	1x	8.18	--	--	--	23.6% (20)	--	04/30/09 08:19	R3
Matrix Spike (9D30003-MS1)				QC Source: BSD0323-01				Extracted: 04/30/09 05:48						
Lead	EPA 6020	60.6	---	0.595	mg/kg dry	1x	8.18	47.6	110%	(75-125)	--	--	04/30/09 08:13	
Post Spike (9D30003-PS1)				QC Source: BSD0323-01				Extracted: 04/30/09 05:48						
Lead	EPA 6020	0.120	---		ug/ml	1x	0.0134	0.100	106%	(80-120)	--	--	04/30/09 08:07	

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TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01004 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E01004-BLK1)								Extracted: 05/01/09 09:04						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	05/01/09 14:52	
Blank (9E01004-BLK2)								Extracted: 05/01/09 09:04						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	05/01/09 14:56	
LCS (9E01004-BS1)								Extracted: 05/01/09 09:04						
Lead	EPA 6010B	46.2	---	1.00	mg/l	1x	--	50.0	92.5%	(80-120)	--	--	05/01/09 15:00	
Duplicate (9E01004-DUP1)				QC Source: BSD0323-11				Extracted: 05/01/09 09:04						
Lead	EPA 6010B	1.58	---	1.00	mg/l	1x	1.56	--	--	--	1.59% (20)	--	05/01/09 15:06	
Matrix Spike (9E01004-MS1)				QC Source: BSD0323-11				Extracted: 05/01/09 09:04						
Lead	EPA 6010B	46.0	---	1.00	mg/l	1x	1.56	50.0	89.0%	(80-120)	--	--	05/01/09 15:03	
Post Spike (9E01004-PS1)				QC Source: BSD0323-11				Extracted: 05/01/09 09:04						
Lead	EPA 6010B	4.84	---		ug/ml	1x	0.156	5.00	93.8%	(75-125)	--	--	05/01/09 15:09	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/01/09 16:34
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D29007 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D29007-BLK1)													Extracted: 04/29/09 14:00	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 17:38	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>128%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/29/09 17:38</i>	
<i>Toluene-d8</i>		<i>91.4%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>105%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9D29007-BS1)													Extracted: 04/29/09 14:00	
Benzene	EPA 8260B	0.0406	---	0.00150	mg/kg wet	1x	--	0.0500	81.1%	(70-125)	--	--	04/29/09 16:47	
Ethylbenzene	"	0.0420	---	0.00400	"	"	--	"	84.0%	"	--	--	"	
Methyl tert-butyl ether	"	0.0433	---	0.00100	"	"	--	"	86.6%	(70-130)	--	--	"	
Naphthalene	"	0.0413	---	0.0100	"	"	--	"	82.5%	"	--	--	"	
Toluene	"	0.0400	---	0.00150	"	"	--	"	80.0%	(70-125)	--	--	"	
Total Xylenes	"	0.127	---	0.0100	"	"	--	0.150	84.6%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/29/09 16:47</i>	
<i>Toluene-d8</i>		<i>95.3%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D29007-BSD1)													Extracted: 04/29/09 14:00	
Benzene	EPA 8260B	0.0454	---	0.00150	mg/kg wet	1x	--	0.0500	90.7%	(70-125)	11.2%	(30)	04/29/09 17:13	
Ethylbenzene	"	0.0466	---	0.00400	"	"	--	"	93.2%	"	10.3%	"	"	
Methyl tert-butyl ether	"	0.0479	---	0.00100	"	"	--	"	95.9%	(70-130)	10.2%	"	"	
Naphthalene	"	0.0461	---	0.0100	"	"	--	"	92.2%	"	11.0%	"	"	
Toluene	"	0.0449	---	0.00150	"	"	--	"	89.8%	(70-125)	11.6%	"	"	
Total Xylenes	"	0.140	---	0.0100	"	"	--	0.150	93.3%	(70-130)	9.84%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/29/09 17:13</i>	
<i>Toluene-d8</i>		<i>95.2%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>106%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/01/09 16:34
--	---	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D29030 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D29030-BLK1)													Extracted: 04/29/09 15:00	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/29/09 18:23	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.7% Limits: 75-125% " 04/29/09 18:23</i>														
<i>Toluene-d8 103% 75-125% " "</i>														
<i>4-BFB 105% 75-125% " "</i>														

LCS (9D29030-BS1)													Extracted: 04/29/09 15:00	
Benzene	EPA 8260B	4.10	0.0100	0.0200	mg/kg wet	1x	--	4.00	103%	(75-125)	--	--	04/29/09 16:55	
Ethylbenzene	"	4.08	0.0120	0.100	"	"	--	"	102%	"	--	--	"	
Methyl tert-butyl ether	"	4.11	0.0100	0.0500	"	"	--	"	103%	"	--	--	"	
Naphthalene	"	3.76	1.10	2.00	"	"	--	"	94.1%	(60-140)	--	--	"	
Toluene	"	4.13	0.0100	0.100	"	"	--	"	103%	(75-125)	--	--	"	
o-Xylene	"	3.89	0.0170	0.100	"	"	--	"	97.3%	"	--	--	"	
m,p-Xylene	"	7.89	0.0210	0.200	"	"	--	8.00	98.7%	"	--	--	"	
Xylenes (total)	"	11.8	0.0310	0.300	"	"	--	12.0	98.2%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 94.2% Limits: 75-125% " 04/29/09 16:55</i>														
<i>Toluene-d8 102% 75-125% " "</i>														
<i>4-BFB 102% 75-125% " "</i>														

LCS Dup (9D29030-BSD1)													Extracted: 04/29/09 15:00	
Benzene	EPA 8260B	4.06	0.0100	0.0200	mg/kg wet	1x	--	4.00	101%	(75-125)	1.08%	(20)	04/29/09 17:21	
Ethylbenzene	"	3.97	0.0120	0.100	"	"	--	"	99.2%	"	2.91%	"	"	
Methyl tert-butyl ether	"	4.00	0.0100	0.0500	"	"	--	"	100%	"	2.69%	"	"	
Naphthalene	"	3.66	1.10	2.00	"	"	--	"	91.5%	(60-140)	2.86%	"	"	
Toluene	"	3.99	0.0100	0.100	"	"	--	"	99.6%	(75-125)	3.62%	"	"	
o-Xylene	"	3.82	0.0170	0.100	"	"	--	"	95.6%	"	1.76%	"	"	
m,p-Xylene	"	7.61	0.0210	0.200	"	"	--	8.00	95.2%	"	3.61%	"	"	
Xylenes (total)	"	11.4	0.0310	0.300	"	"	--	12.0	95.3%	"	3.00%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 94.8% Limits: 75-125% " 04/29/09 17:21</i>														
<i>Toluene-d8 103% 75-125% " "</i>														
<i>4-BFB 101% 75-125% " "</i>														

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/01/09 16:34
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D29025 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D29025-BLK1)										Extracted: 04/29/09 12:32				
Dry Weight	BSOPSP00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	04/30/09 00:00	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:34

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the kerosene range are primarily due to overlap from a heavy oil range product.
- A-01a - The hydrocarbons present are a complex mixture of multiple heavy oil range products.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSD0323**

CLIENT: Conoco Phillips	REPORT TO: Wasep Staff	PHONE:	FAX:	PROJECT NAME: Wasep Phase II	PROJECT NUMBER:	P.O. NUMBER:	INVOICE TO: CP	PRESERVATIVE		REQUESTED ANALYSES		TURNAROUND REQUEST	
								Matrix (W, S, O)	# of Cont.	Location/Comments	TA WO ID		
SAMPLED BY: Matthew McKenna	SAMPLING DATE/TIME												
1. Areal-B4-9	4-29-09 / 0830												
2. C5-9	" / 0840												
3. C5-7	" / 1000												
4. D5-9	" / 1010												
5. E4-9	" / 1120												
6. E2-14	" / 1350												
7. E3-14	" / 1400												
8. F2-14	" / 1410												
9. F3-14	" / 1420												
10. G2-14	" / 1430												
RELEASED BY: Matthew McKenna		DATE: 4-29-09		TIME: 1500		RECEIVED BY: Francisco Linares Jr		DATE: 4/29/09		TIME: 15:00		FIRM: THSEH	
PRINT NAME: MATTHEW MCKENNA		FIRM: WAS		FIRM: WAS		PRINT NAME: Francisco Linares Jr		FIRM: THSEH		FIRM: THSEH		DATE: 4/29/09	
RELEASED BY:		DATE:		TIME:		RECEIVED BY:		DATE:		TIME:		FIRM:	
PRINT NAME:		FIRM:		FIRM:		PRINT NAME:		FIRM:		FIRM:		DATE:	
ADDITIONAL REMARKS:		TEMP: 3.1		PAGE: 1		OF: 1		DATE: 4/29/09		TIME: 15:00		FIRM: THSEH	

TCLP sample if total lead > 500 mg/kg

@lab 1530 w/o

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 4/29/09 Date: 4/29/09 Date: 4/29/09 Date: _____ Work Order No. BSDO323
 Time: 1530 Time: 1546 Time: 1620 Time: _____ Client: _____
 Initials: FL Initials: FL Initials: FL Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs _____
 _____ None/Other _____ None _____ None/Other Bubble wrap, plastic bag

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client _____
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier _____
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley _____
 _____ GS _____ Senvoy _____ TDP _____
 _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 3.1 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ ID _____ ID _____
 Intact? or N _____ Metals Preserved? Y or N or _____
 Provided by TA? or N _____ Client QAPP Preserved? Y or N or _____
 Correct Type? or N _____ Adequate Volume? or N _____
 (for tests requested)
 #Containers match COC? or N _____ Water VOAs: Headspace? Y or N or _____
 IDs/time/date match COC? or N _____ Comments: _____
 Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

May 04, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/30/09 15:45.
The following list is a summary of the Work Orders contained in this report, generated on 05/04/09
16:08.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0337	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 16:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-D9-7	BSD0337-01	Soil	04/30/09 13:00	04/30/09 15:45
AREA1-B3-9	BSD0337-02	Soil	04/30/09 14:10	04/30/09 15:45
AREA1-H2-14	BSD0337-03	Soil	04/30/09 14:20	04/30/09 15:45
AREA1-H3-14	BSD0337-04	Soil	04/30/09 14:30	04/30/09 15:45
AREA1-I2-14	BSD0337-05	Soil	04/30/09 14:40	04/30/09 15:45
AREA1-I3-14	BSD0337-06	Soil	04/30/09 14:50	04/30/09 15:45

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 16:08
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01 (AREA1-D9-7)		Soil		Sampled: 04/30/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	5.34	19.1	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 18:46	
Surrogate(s): 4-BFB (FID)			128%		75 - 140 %	"				"
BSD0337-02 (AREA1-B3-9)		Soil		Sampled: 04/30/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	11.1	2.17	7.74	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 19:50	
Surrogate(s): 4-BFB (FID)			139%		75 - 140 %	"				"
BSD0337-03 (AREA1-H2-14)		Soil		Sampled: 04/30/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	20.5	15.0	53.6	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 19:18	J
Surrogate(s): 4-BFB (FID)			178%		75 - 140 %	"				ZX
BSD0337-03RE1 (AREA1-H2-14)		Soil		Sampled: 04/30/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	10.3	36.8	mg/kg dry	1x	9E01006	05/01/09 10:28	05/01/09 14:00	M1
Surrogate(s): 4-BFB (FID)			191%		75 - 140 %	"				ZX
BSD0337-04 (AREA1-H3-14)		Soil		Sampled: 04/30/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.90	6.80	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 21:59	
Surrogate(s): 4-BFB (FID)			136%		75 - 140 %	"				"
BSD0337-05 (AREA1-I2-14)		Soil		Sampled: 04/30/09 14:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	15.0	10.1	36.2	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 22:31	J
Surrogate(s): 4-BFB (FID)			190%		75 - 140 %	"				ZX
BSD0337-05RE1 (AREA1-I2-14)		Soil		Sampled: 04/30/09 14:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	7.85	7.80	27.9	mg/kg dry	1x	9E01006	05/01/09 10:28	05/01/09 15:06	J
Surrogate(s): 4-BFB (FID)			183%		75 - 140 %	"				ZX
BSD0337-06 (AREA1-I3-14)		Soil		Sampled: 04/30/09 14:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.79	6.40	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 23:03	
Surrogate(s): 4-BFB (FID)			134%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 16:08
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01 (AREA1-D9-7)		Soil			Sampled: 04/30/09 13:00					
Lube Oil	NWTPH-Dx	ND	----	38.1	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 20:27	
Kerosene	"	ND	----	15.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	15.2	"	"	"	"	"	
Surrogate(s): 2-FBP			95.3%		54 - 148 %	"				"
Octacosane			102%		62 - 142 %	"				"
BSD0337-02 (AREA1-B3-9)		Soil			Sampled: 04/30/09 14:10					
Lube Oil	NWTPH-Dx	ND	----	33.5	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 20:51	
Kerosene	"	ND	----	13.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.4	"	"	"	"	"	
Surrogate(s): 2-FBP			102%		54 - 148 %	"				"
Octacosane			104%		62 - 142 %	"				"
BSD0337-03 (AREA1-H2-14)		Soil			Sampled: 04/30/09 14:20					
Lube Oil	NWTPH-Dx	738	----	125	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 21:14	Q1
Kerosene	"	ND	----	50.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	263	----	50.0	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			97.3%		54 - 148 %	"				"
Octacosane			103%		62 - 142 %	"				"
BSD0337-04 (AREA1-H3-14)		Soil			Sampled: 04/30/09 14:30					
Lube Oil	NWTPH-Dx	ND	----	31.8	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 21:38	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
Surrogate(s): 2-FBP			97.8%		54 - 148 %	"				"
Octacosane			104%		62 - 142 %	"				"
BSD0337-05 (AREA1-I2-14)		Soil			Sampled: 04/30/09 14:40					
Lube Oil	NWTPH-Dx	649	----	98.5	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 22:02	Q1
Kerosene	"	68.3	----	39.4	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	364	----	39.4	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			97.6%		54 - 148 %	"				"
Octacosane			102%		62 - 142 %	"				"

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1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 16:08

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-06 (AREA1-I3-14)		Soil			Sampled: 04/30/09 14:50					
Lube Oil	NWTPH-Dx	ND	----	31.7	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 22:25	
Kerosene	"	ND	----	12.7	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>2-FBP</i>		<i>102%</i>		<i>54 - 148 %</i>	"				"
	<i>Octacosane</i>		<i>107%</i>		<i>62 - 142 %</i>	"				"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 16:08

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01RE1 (AREA1-D9-7)		Soil		Sampled: 04/30/09 13:00						
Lead	EPA 6020	1130	----	7.42	mg/kg dry	10x	9D30071	04/30/09 21:34	05/01/09 11:01	
BSD0337-02 (AREA1-B3-9)		Soil		Sampled: 04/30/09 14:10						
Lead	EPA 6020	7.20	----	0.676	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:17	
BSD0337-03 (AREA1-H2-14)		Soil		Sampled: 04/30/09 14:20						
Lead	EPA 6020	97.0	----	2.47	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:23	
BSD0337-04 (AREA1-H3-14)		Soil		Sampled: 04/30/09 14:30						
Lead	EPA 6020	11.3	----	0.645	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:30	
BSD0337-05 (AREA1-I2-14)		Soil		Sampled: 04/30/09 14:40						
Lead	EPA 6020	307	----	2.00	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:55	
BSD0337-06 (AREA1-I3-14)		Soil		Sampled: 04/30/09 14:50						
Lead	EPA 6020	6.47	----	0.647	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:42	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/04/09 16:08
	Project Manager:	Ty Griffith	

TCLP Metals by EPA 1311/6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01	(AREA1-D9-7)									
		Soil					Sampled: 04/30/09 13:00			
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9E04009	05/04/09 07:24	05/04/09 13:13	

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 16:08

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01 (AREA1-D9-7)		Soil		Sampled: 04/30/09 13:00						
Benzene	EPA 8260B	ND	----	0.00116	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 17:19	
Ethylbenzene	"	ND	----	0.00311	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000777	"	"	"	"	"	
Naphthalene	"	ND	----	0.00777	"	"	"	"	"	
Toluene	"	ND	----	0.00116	"	"	"	"	"	
o-Xylene	"	ND	----	0.00388	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00388	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00777	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				115%	70 - 140 %	"				"
<i>Toluene-d8</i>				95.4%	70 - 130 %	"				"
<i>4-BFB</i>				108%	70 - 130 %	"				"
BSD0337-02 (AREA1-B3-9)		Soil		Sampled: 04/30/09 14:10						
Benzene	EPA 8260B	0.0342	----	0.00108	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 17:45	
Ethylbenzene	"	0.00354	----	0.00289	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000723	"	"	"	"	"	
Naphthalene	"	ND	----	0.00723	"	"	"	"	"	
Toluene	"	0.00150	----	0.00108	"	"	"	"	"	
o-Xylene	"	ND	----	0.00362	"	"	"	"	"	
m,p-Xylene	"	0.0117	----	0.00362	"	"	"	"	"	
Total Xylenes	"	0.0136	----	0.00723	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				117%	70 - 140 %	"				"
<i>Toluene-d8</i>				100%	70 - 130 %	"				"
<i>4-BFB</i>				115%	70 - 130 %	"				"
BSD0337-03 (AREA1-H2-14)		Soil		Sampled: 04/30/09 14:20						
Benzene	EPA 8260B	0.0229	----	0.00538	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 18:11	
Ethylbenzene	"	ND	----	0.0143	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.00358	"	"	"	"	"	
Naphthalene	"	ND	----	0.0358	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>				127%	70 - 140 %	"				I
<i>Toluene-d8</i>				118%	70 - 130 %	"				I
<i>4-BFB</i>				123%	70 - 130 %	"				"

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Kate Haney

Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 16:08

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSD0337-04 (AREA1-H3-14)

Soil

Sampled: 04/30/09 14:30

Benzene	EPA 8260B	ND	----	0.00108	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 18:36	
Ethylbenzene	"	ND	----	0.00289	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000721	"	"	"	"	"	
Naphthalene	"	ND	----	0.00721	"	"	"	"	"	
Toluene	"	ND	----	0.00108	"	"	"	"	"	
o-Xylene	"	ND	----	0.00361	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00361	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00721	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	110%	70 - 140 %	"	"	"	"	"	"	
	Toluene-d8	96.2%	70 - 130 %	"	"	"	"	"	"	
	4-BFB	106%	70 - 130 %	"	"	"	"	"	"	

BSD0337-05 (AREA1-I2-14)

Soil

Sampled: 04/30/09 14:40

Benzene	EPA 8260B	ND	----	0.00390	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 19:02	
Ethylbenzene	"	ND	----	0.0104	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00260	"	"	"	"	"	
Naphthalene	"	ND	----	0.0260	"	"	"	"	"	
Toluene	"	ND	----	0.00390	"	"	"	"	"	
o-Xylene	"	ND	----	0.0130	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.0130	"	"	"	"	"	
Total Xylenes	"	ND	----	0.0260	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	126%	70 - 140 %	"	"	"	"	"	"	
	Toluene-d8	104%	70 - 130 %	"	"	"	"	"	"	
	4-BFB	112%	70 - 130 %	"	"	"	"	"	"	

BSD0337-06 (AREA1-I3-14)

Soil

Sampled: 04/30/09 14:50

P13

Benzene	EPA 8260B	ND	----	0.000943	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 19:27	
Ethylbenzene	"	ND	----	0.00252	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000629	"	"	"	"	"	
Naphthalene	"	ND	----	0.00629	"	"	"	"	"	
Toluene	"	ND	----	0.000943	"	"	"	"	"	
o-Xylene	"	ND	----	0.00314	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00314	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00629	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	125%	70 - 140 %	"	"	"	"	"	"	
	Toluene-d8	94.2%	70 - 130 %	"	"	"	"	"	"	
	4-BFB	102%	70 - 130 %	"	"	"	"	"	"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 16:08

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-03 (AREA1-H2-14)		Soil			Sampled: 04/30/09 14:20					
Toluene	EPA 8260B	0.107	0.107	1.07	mg/kg dry	1x	9D30039	04/30/09 16:11	04/30/09 20:03	J
o-Xylene	"	ND	0.182	1.07	"	"	"	"	"	
m,p-Xylene	"	0.246	0.225	2.14	"	"	"	"	"	J
Xylenes (total)	"	ND	0.332	3.21	"	"	"	"	"	
<i>Surrogate(s):</i>										
	1,2-DCA-d4		96.8%		75 - 125 %	"				"
	Toluene-d8		97.9%		75 - 125 %	"				"
	4-BFB		100%		75 - 125 %	"				"

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01 (AREA1-D9-7)		Soil			Sampled: 04/30/09 13:00					
Dry Weight	BSOPSP003R0 8	65.4	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-02 (AREA1-B3-9)		Soil			Sampled: 04/30/09 14:10					
Dry Weight	BSOPSP003R0 8	74.7	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-03 (AREA1-H2-14)		Soil			Sampled: 04/30/09 14:20					
Dry Weight	BSOPSP003R0 8	19.9	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-04 (AREA1-H3-14)		Soil			Sampled: 04/30/09 14:30					
Dry Weight	BSOPSP003R0 8	78.3	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-05 (AREA1-I2-14)		Soil			Sampled: 04/30/09 14:40					
Dry Weight	BSOPSP003R0 8	25.3	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-06 (AREA1-I3-14)		Soil			Sampled: 04/30/09 14:50					
Dry Weight	BSOPSP003R0 8	78.9	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 16:08
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30008	Soil Preparation Method: EPA 5030B (P/T)
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9D30008-BLK1)													Extracted: 04/30/09 07:44			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/30/09 15:15			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/30/09 15:15</i>		
LCS (9D30008-BS1)													Extracted: 04/30/09 07:44			
Gasoline Range Hydrocarbons	NWTPH-Gx	47.6	1.40	5.00	mg/kg wet	1x	--	50.0	95.1%	(80-120)	--	--	04/30/09 15:47			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 116%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/30/09 15:47</i>		
Duplicate (9D30008-DUP1)													QC Source: BSD0328-05		Extracted: 04/30/09 07:44	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	4.65	16.6	mg/kg dry	1x	ND	--	--	--	NR (40)	(40)	04/30/09 17:09			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 129%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/30/09 17:09</i>		
Matrix Spike (9D30008-MS1)													QC Source: BSD0328-05		Extracted: 04/30/09 07:44	
Gasoline Range Hydrocarbons	NWTPH-Gx	168	4.65	16.6	mg/kg dry	1x	ND	140	120%	(75-130)	--	--	04/30/09 20:23			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 134%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/30/09 20:23</i>		

QC Batch: 9E01006	Soil Preparation Method: EPA 5030B (P/T)
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E01006-BLK1)													Extracted: 05/01/09 10:28			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/01/09 12:55			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.8%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/01/09 12:55</i>		
LCS (9E01006-BS1)													Extracted: 05/01/09 10:28			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.9	1.40	5.00	mg/kg wet	1x	--	50.0	99.7%	(80-120)	--	--	05/01/09 13:28			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.7%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/01/09 13:28</i>		
Duplicate (9E01006-DUP1)													QC Source: BSD0337-03RE1		Extracted: 05/01/09 10:28	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	10.3	36.8	mg/kg dry	1x	ND	--	--	--	NR (40)	(40)	05/01/09 14:33	ZX		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 192%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/01/09 14:33</i>		
Duplicate (9E01006-DUP2)													QC Source: BSE0015-01		Extracted: 05/01/09 13:05	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.18	4.23	mg/kg wet	1x	ND	--	--	--	NR (40)	(40)	05/01/09 19:26			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 87.9%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/01/09 19:26</i>		
Matrix Spike (9E01006-MS1)													QC Source: BSD0337-03RE1		Extracted: 05/01/09 10:28	
Gasoline Range Hydrocarbons	NWTPH-Gx	437	10.3	36.8	mg/kg dry	1x	ND	167	262%	(75-130)	--	--	05/01/09 15:38	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 217%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/01/09 15:38</i>	ZX	

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1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 16:08

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30059 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D30059-BLK1)

Extracted: 04/30/09 17:05

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/30/09 18:52	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/30/09 18:52</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D30059-BS1)

Extracted: 04/30/09 17:05

Lube Oil	NWTPH-Dx	60.5	---	25.0	mg/kg wet	1x	--	66.7	90.8%	(63-125)	--	--	04/30/09 19:15	
Diesel Range Hydrocarbons	"	67.7	---	10.0	"	"	--	"	102%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/30/09 19:15</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D30059-DUP1)

QC Source: BSD0337-01

Extracted: 04/30/09 17:05

Lube Oil	NWTPH-Dx	ND	---	37.8	mg/kg dry	1x	ND	--	--	--	8.21% (50)	--	04/30/09 19:39	
Kerosene	"	ND	---	15.1	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	15.1	"	"	ND	--	--	--	"	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/30/09 19:39</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D30059-MS1)

QC Source: BSD0337-01

Extracted: 04/30/09 17:05

Lube Oil	NWTPH-Dx	89.5	---	37.7	mg/kg dry	1x	14.9	101	74.2%	(26-150)	--	--	04/30/09 20:03	
Diesel Range Hydrocarbons	"	98.1	---	15.1	"	"	ND	"	97.6%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/30/09 20:03</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30071 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30071-BLK1)								Extracted: 04/30/09 21:34						
Lead	EPA 6020	ND	---	0.510	mg/kg wet	1x	--	--	--	--	--	--	05/01/09 09:02	
LCS (9D30071-BS1)								Extracted: 04/30/09 21:34						
Lead	EPA 6020	40.2	---	0.500	mg/kg wet	1x	--	40.0	100%	(80-120)	--	--	05/01/09 09:08	
Duplicate (9D30071-DUP1)				QC Source: BSD0328-05				Extracted: 04/30/09 21:34						
Lead	EPA 6020	4.47	---	0.733	mg/kg dry	1x	4.53	--	--	--	1.25% (20)	--	05/01/09 09:20	
Matrix Spike (9D30071-MS1)				QC Source: BSD0328-05				Extracted: 04/30/09 21:34						
Lead	EPA 6020	62.8	---	0.747	mg/kg dry	1x	4.53	59.8	97.6%	(75-125)	--	--	05/01/09 09:14	
Post Spike (9D30071-PS1)				QC Source: BSD0328-05				Extracted: 04/30/09 21:34						
Lead	EPA 6020	0.115	---		ug/ml	1x	0.00588	0.100	109%	(80-120)	--	--	05/01/09 09:27	

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TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E04009 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E04009-BLK1)								Extracted: 05/04/09 07:24						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	05/04/09 12:53	
Blank (9E04009-BLK2)								Extracted: 05/04/09 07:24						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	05/04/09 12:57	
LCS (9E04009-BS1)								Extracted: 05/04/09 07:24						
Lead	EPA 6010B	45.0	---	1.00	mg/l	1x	--	50.0	89.9%	(80-120)	--	--	05/04/09 13:01	
Duplicate (9E04009-DUP1)				QC Source: BSD0337-01				Extracted: 05/04/09 07:24						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	ND	--	--	--	2.59% (20)	--	05/04/09 13:07	
Matrix Spike (9E04009-MS1)				QC Source: BSD0337-01				Extracted: 05/04/09 07:24						
Lead	EPA 6010B	44.0	---	1.00	mg/l	1x	0.534	50.0	87.0%	(80-120)	--	--	05/04/09 13:04	
Post Spike (9E04009-PS1)				QC Source: BSD0337-01				Extracted: 05/04/09 07:24						
Lead	EPA 6010B	4.65	---		ug/ml	1x	0.0534	5.00	91.9%	(75-125)	--	--	05/04/09 13:10	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30037 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30037-BLK1)													Extracted: 04/30/09 15:15	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/30/09 16:54	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>124%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/30/09 16:54</i>	
<i>Toluene-d8</i>		<i>94.4%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>104%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9D30037-BS1)													Extracted: 04/30/09 15:15	
Benzene	EPA 8260B	0.0426	---	0.00150	mg/kg wet	1x	--	0.0500	85.3%	(70-125)	--	--	04/30/09 16:03	
Ethylbenzene	"	0.0426	---	0.00400	"	"	--	"	85.1%	"	--	--	"	
Methyl tert-butyl ether	"	0.0490	---	0.00100	"	"	--	"	98.0%	(70-130)	--	--	"	
Naphthalene	"	0.0476	---	0.0100	"	"	--	"	95.2%	"	--	--	"	
Toluene	"	0.0404	---	0.00150	"	"	--	"	80.9%	(70-125)	--	--	"	
Total Xylenes	"	0.130	---	0.0100	"	"	--	0.150	86.8%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/30/09 16:03</i>	
<i>Toluene-d8</i>		<i>96.0%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>99.2%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D30037-BSD1)													Extracted: 04/30/09 15:15	
Benzene	EPA 8260B	0.0526	---	0.00150	mg/kg wet	1x	--	0.0500	105%	(70-125)	20.9% (30)		04/30/09 16:29	
Ethylbenzene	"	0.0520	---	0.00400	"	"	--	"	104%	"	19.9%	"	"	
Methyl tert-butyl ether	"	0.0547	---	0.00100	"	"	--	"	109%	(70-130)	11.0%	"	"	
Naphthalene	"	0.0543	---	0.0100	"	"	--	"	109%	"	13.1%	"	"	
Toluene	"	0.0486	---	0.00150	"	"	--	"	97.2%	(70-125)	18.3%	"	"	
Total Xylenes	"	0.155	---	0.0100	"	"	--	0.150	103%	(70-130)	17.3%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/30/09 16:29</i>	
<i>Toluene-d8</i>		<i>93.5%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30039 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30039-BLK1)													Extracted: 04/30/09 16:11	
Benzene	EPA 8260B	0.0110	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/30/09 17:49	J
Ethylbenzene	"	0.0140	0.0120	0.100	"	"	--	--	--	--	--	--	"	J
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	0.0140	0.0100	0.100	"	"	--	--	--	--	--	--	"	J
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	0.0220	0.0210	0.200	"	"	--	--	--	--	--	--	"	J
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 91.2%</i>		<i>Limits: 75-125%</i>		"						<i>04/30/09 17:49</i>		
<i>Toluene-d8</i>		<i>101%</i>		<i>75-125%</i>		"						<i>"</i>		
<i>4-BFB</i>		<i>101%</i>		<i>75-125%</i>		"						<i>"</i>		

LCS (9D30039-BS1)													Extracted: 04/30/09 16:11	
Benzene	EPA 8260B	3.96	0.0100	0.0200	mg/kg wet	1x	--	4.00	99.0%	(75-125)	--	--	04/30/09 16:20	B
Ethylbenzene	"	3.98	0.0120	0.100	"	"	--	"	99.5%	"	--	--	"	
Methyl tert-butyl ether	"	3.72	0.0100	0.0500	"	"	--	"	93.0%	"	--	--	"	
Naphthalene	"	3.57	1.10	2.00	"	"	--	"	89.3%	(60-140)	--	--	"	
Toluene	"	3.85	0.0100	0.100	"	"	--	"	96.3%	(75-125)	--	--	"	
o-Xylene	"	3.80	0.0170	0.100	"	"	--	"	94.9%	"	--	--	"	
m,p-Xylene	"	7.58	0.0210	0.200	"	"	--	8.00	94.7%	"	--	--	"	
Xylenes (total)	"	11.4	0.0310	0.300	"	"	--	12.0	94.8%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 90.6%</i>		<i>Limits: 75-125%</i>		"						<i>04/30/09 16:20</i>		
<i>Toluene-d8</i>		<i>95.4%</i>		<i>75-125%</i>		"						<i>"</i>		
<i>4-BFB</i>		<i>97.4%</i>		<i>75-125%</i>		"						<i>"</i>		

LCS Dup (9D30039-BSD1)													Extracted: 04/30/09 16:11	
Benzene	EPA 8260B	3.63	0.0100	0.0200	mg/kg wet	1x	--	4.00	90.8%	(75-125)	8.62% (20)		04/30/09 16:47	B
Ethylbenzene	"	3.63	0.0120	0.100	"	"	--	"	90.7%	"	9.28%	"	"	
Methyl tert-butyl ether	"	3.71	0.0100	0.0500	"	"	--	"	92.7%	"	0.323%	"	"	
Naphthalene	"	3.51	1.10	2.00	"	"	--	"	87.8%	(60-140)	1.75%	"	"	
Toluene	"	3.66	0.0100	0.100	"	"	--	"	91.6%	(75-125)	5.08%	"	"	
o-Xylene	"	3.49	0.0170	0.100	"	"	--	"	87.4%	"	8.31%	"	"	
m,p-Xylene	"	7.06	0.0210	0.200	"	"	--	8.00	88.2%	"	7.15%	"	"	
Xylenes (total)	"	10.6	0.0310	0.300	"	"	--	12.0	87.9%	"	7.53%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 93.6%</i>		<i>Limits: 75-125%</i>		"						<i>04/30/09 16:47</i>		
<i>Toluene-d8</i>		<i>98.5%</i>		<i>75-125%</i>		"						<i>"</i>		
<i>4-BFB</i>		<i>98.4%</i>		<i>75-125%</i>		"						<i>"</i>		

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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30060 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30060-BLK1)										Extracted: 04/30/09 17:05				
Dry Weight	BSOPSP00 3R08	99.9	---	1.00	%	1x	--	--	--	--	--	--	05/01/09 00:00	

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 16:08

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 16:08

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the Kerosene range are primarily due to overlap from a heavy oil range product
- B - Analyte was detected in the associated Method Blank.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 425-420-9200 FAX 420-9210
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 509-924-9200 FAX 924-9290
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 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **6500337**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST									
REPORT TO: WMEP Staff		E.O. NUMBER:		in Business Days *									
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses									
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses									
PROJECT NAME: WMEP Phase II		LEAD		STD.									
PROJECT NUMBER:		X		STD.									
SAMPLED BY: MATTHEW MUSKIEBIN		X		OTHER									
CLIENT SAMPLE IDENTIFICATION		X		Specify: 24-hr									
SAMPLING DATE/TIME		X		* Turnaround Requests less than standard may incur Rush Charges.									
1	Arcel-D9-7	4-30-09 / 1300	X	S	4	4	4	4	1	<1	SOIL	TA	WO ID
2	"	" / 1410	X	↓	4	4	4	4	1	<1	SOIL	SOIL	SOIL
3	"	" / 1420	X	↓	5	5	5	5	1	<1	SOIL	SOIL	SOIL
4	"	" / 1430	X	↓	4	4	4	4	1	<1	SOIL	SOIL	SOIL
5	"	" / 1440	X	↓	5	5	5	5	1	<1	SOIL	SOIL	SOIL
6	"	" / 1450	X	↓	4	4	4	4	1	<1	SOIL	SOIL	SOIL
7													
8													
9													
10													

RECEIVED BY: **Matthew Muskibin** DATE: **4-30-09** TIME: **1500** FIRM: **was**
 PRINT NAME: **Matthew Muskibin** RECEIVED BY: **Francisco Lung, Jr** DATE: **4/30/09** TIME: **1500** FIRM: **TA-SEA**
 RECEIVED BY: **Francisco Lung, Jr** DATE: **4/30/09** TIME: **1500** FIRM: **TA-SEA**
 PRINT NAME: **Francisco Lung, Jr** RECEIVED BY: **Francisco Lung, Jr** DATE: **4/30/09** TIME: **1500** FIRM: **TA-SEA**
 ADDITIONAL REMARKS: **TCIF all samples w/ total lead ≥ 500 mg/kg - low soil method**
@Lab 1545 w/o
4.5'
 TEMP: **4.5'** PAGE **OF**

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances? Circle Y or **N** (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)
 Date: 4/30/09 Date: 4/30/09 Date: 4/30 Date: 4/30 Work Order No. BSD0337
 Time: 1545 Time: 1558 Time: 1630 Time: 17:00 Client: _____
 Initials: FL Initials: FL Initials: FL Initials: CL Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs
 _____ None/Other _____ None _____ None/Other Bubble wrap

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ or N or NA _____ UPS TA Courier
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley
 _____ Senvoy _____ TDP
 _____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 4.3 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="checkbox"/> or N _____	Metals Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Provided by TA? <input checked="" type="checkbox"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Correct Type? <input checked="" type="checkbox"/> or N _____	Adequate Volume? <input checked="" type="checkbox"/> or N _____	
#Containers match COC? <input checked="" type="checkbox"/> or N _____	(for tests requested)	Water VOAs: Headspace? Y or N or <input checked="" type="checkbox"/> NA _____
IDs/time/date match COC? <input checked="" type="checkbox"/> or N _____	Comments: _____	
Hold Times in hold? <input checked="" type="checkbox"/> or N _____		

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

May 01, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 04/30/09 15:45.
The following list is a summary of the Work Orders contained in this report, generated on 05/01/09
16:43.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSD0337	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-D9-7	BSD0337-01	Soil	04/30/09 13:00	04/30/09 15:45
AREA1-B3-9	BSD0337-02	Soil	04/30/09 14:10	04/30/09 15:45
AREA1-H2-14	BSD0337-03	Soil	04/30/09 14:20	04/30/09 15:45
AREA1-H3-14	BSD0337-04	Soil	04/30/09 14:30	04/30/09 15:45
AREA1-I2-14	BSD0337-05	Soil	04/30/09 14:40	04/30/09 15:45
AREA1-I3-14	BSD0337-06	Soil	04/30/09 14:50	04/30/09 15:45

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/01/09 16:43
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01 (AREA1-D9-7)		Soil		Sampled: 04/30/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	5.34	19.1	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 18:46	
Surrogate(s): 4-BFB (FID)			128%		75 - 140 %	"				"
BSD0337-02 (AREA1-B3-9)		Soil		Sampled: 04/30/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	11.1	2.17	7.74	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 19:50	
Surrogate(s): 4-BFB (FID)			139%		75 - 140 %	"				"
BSD0337-03 (AREA1-H2-14)		Soil		Sampled: 04/30/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	20.5	15.0	53.6	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 19:18	J
Surrogate(s): 4-BFB (FID)			178%		75 - 140 %	"				ZX
BSD0337-04 (AREA1-H3-14)		Soil		Sampled: 04/30/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.90	6.80	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 21:59	
Surrogate(s): 4-BFB (FID)			136%		75 - 140 %	"				"
BSD0337-05 (AREA1-I2-14)		Soil		Sampled: 04/30/09 14:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	15.0	10.1	36.2	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 22:31	J
Surrogate(s): 4-BFB (FID)			190%		75 - 140 %	"				ZX
BSD0337-06 (AREA1-I3-14)		Soil		Sampled: 04/30/09 14:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.79	6.40	mg/kg dry	1x	9D30008	04/30/09 17:28	04/30/09 23:03	
Surrogate(s): 4-BFB (FID)			134%		75 - 140 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01 (AREA1-D9-7)		Soil		Sampled: 04/30/09 13:00						
Lube Oil	NWTPH-Dx	ND	----	38.1	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 20:27	
Kerosene	"	ND	----	15.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	15.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			95.3%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"
BSD0337-02 (AREA1-B3-9)		Soil		Sampled: 04/30/09 14:10						
Lube Oil	NWTPH-Dx	ND	----	33.5	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 20:51	
Kerosene	"	ND	----	13.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			102%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0337-03 (AREA1-H2-14)		Soil		Sampled: 04/30/09 14:20						
Lube Oil	NWTPH-Dx	738	----	125	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 21:14	Q1
Kerosene	"	ND	----	50.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	263	----	50.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			97.3%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSD0337-04 (AREA1-H3-14)		Soil		Sampled: 04/30/09 14:30						
Lube Oil	NWTPH-Dx	ND	----	31.8	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 21:38	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.8%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSD0337-05 (AREA1-I2-14)		Soil		Sampled: 04/30/09 14:40						
Lube Oil	NWTPH-Dx	649	----	98.5	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 22:02	Q1
Kerosene	"	68.3	----	39.4	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	364	----	39.4	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			97.6%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-06 (AREA1-I3-14)		Soil			Sampled: 04/30/09 14:50					
Lube Oil	NWTPH-Dx	ND	----	31.7	mg/kg dry	1x	9D30059	04/30/09 17:05	04/30/09 22:25	
Kerosene	"	ND	----	12.7	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	"
<i>Surrogate(s):</i> 2-FBP			102%		54 - 148 %	"				"
Octacosane			107%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01RE1 (AREA1-D9-7)		Soil		Sampled: 04/30/09 13:00						
Lead	EPA 6020	1130	----	7.42	mg/kg dry	10x	9D30071	04/30/09 21:34	05/01/09 11:01	
BSD0337-02 (AREA1-B3-9)		Soil		Sampled: 04/30/09 14:10						
Lead	EPA 6020	7.20	----	0.676	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:17	
BSD0337-03 (AREA1-H2-14)		Soil		Sampled: 04/30/09 14:20						
Lead	EPA 6020	97.0	----	2.47	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:23	
BSD0337-04 (AREA1-H3-14)		Soil		Sampled: 04/30/09 14:30						
Lead	EPA 6020	11.3	----	0.645	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:30	
BSD0337-05 (AREA1-I2-14)		Soil		Sampled: 04/30/09 14:40						
Lead	EPA 6020	307	----	2.00	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:55	
BSD0337-06 (AREA1-I3-14)		Soil		Sampled: 04/30/09 14:50						
Lead	EPA 6020	6.47	----	0.647	mg/kg dry	1x	9D30071	04/30/09 21:34	05/01/09 10:42	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01 (AREA1-D9-7)		Soil		Sampled: 04/30/09 13:00						
Benzene	EPA 8260B	ND	----	0.00116	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 17:19	
Ethylbenzene	"	ND	----	0.00311	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000777	"	"	"	"	"	
Naphthalene	"	ND	----	0.00777	"	"	"	"	"	
Toluene	"	ND	----	0.00116	"	"	"	"	"	
o-Xylene	"	ND	----	0.00388	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00388	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00777	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				115%	70 - 140 %	"				"
<i>Toluene-d8</i>				95.4%	70 - 130 %	"				"
<i>4-BFB</i>				108%	70 - 130 %	"				"
BSD0337-02 (AREA1-B3-9)		Soil		Sampled: 04/30/09 14:10						
Benzene	EPA 8260B	0.0342	----	0.00108	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 17:45	
Ethylbenzene	"	0.00354	----	0.00289	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000723	"	"	"	"	"	
Naphthalene	"	ND	----	0.00723	"	"	"	"	"	
Toluene	"	0.00150	----	0.00108	"	"	"	"	"	
o-Xylene	"	ND	----	0.00362	"	"	"	"	"	
m,p-Xylene	"	0.0117	----	0.00362	"	"	"	"	"	
Total Xylenes	"	0.0136	----	0.00723	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				117%	70 - 140 %	"				"
<i>Toluene-d8</i>				100%	70 - 130 %	"				"
<i>4-BFB</i>				115%	70 - 130 %	"				"
BSD0337-03 (AREA1-H2-14)		Soil		Sampled: 04/30/09 14:20						
Benzene	EPA 8260B	0.0229	----	0.00538	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 18:11	
Ethylbenzene	"	ND	----	0.0143	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.00358	"	"	"	"	"	
Naphthalene	"	ND	----	0.0358	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>				127%	70 - 140 %	"				I
<i>Toluene-d8</i>				118%	70 - 130 %	"				I
<i>4-BFB</i>				123%	70 - 130 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSD0337-04 (AREA1-H3-14)

Soil

Sampled: 04/30/09 14:30

Benzene	EPA 8260B	ND	----	0.00108	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 18:36	
Ethylbenzene	"	ND	----	0.00289	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000721	"	"	"	"	"	
Naphthalene	"	ND	----	0.00721	"	"	"	"	"	
Toluene	"	ND	----	0.00108	"	"	"	"	"	
o-Xylene	"	ND	----	0.00361	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00361	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00721	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4
 Toluene-d8
 4-BFB

110% 70 - 140 %
 96.2% 70 - 130 %
 106% 70 - 130 %

"
 "
 "

BSD0337-05 (AREA1-I2-14)

Soil

Sampled: 04/30/09 14:40

Benzene	EPA 8260B	ND	----	0.00390	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 19:02	
Ethylbenzene	"	ND	----	0.0104	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00260	"	"	"	"	"	
Naphthalene	"	ND	----	0.0260	"	"	"	"	"	
Toluene	"	ND	----	0.00390	"	"	"	"	"	
o-Xylene	"	ND	----	0.0130	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.0130	"	"	"	"	"	
Total Xylenes	"	ND	----	0.0260	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4
 Toluene-d8
 4-BFB

126% 70 - 140 %
 104% 70 - 130 %
 112% 70 - 130 %

"
 "
 "

BSD0337-06 (AREA1-I3-14)

Soil

Sampled: 04/30/09 14:50

P13

Benzene	EPA 8260B	ND	----	0.000943	mg/kg dry	1x	9D30037	04/30/09 16:15	04/30/09 19:27	
Ethylbenzene	"	ND	----	0.00252	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000629	"	"	"	"	"	
Naphthalene	"	ND	----	0.00629	"	"	"	"	"	
Toluene	"	ND	----	0.000943	"	"	"	"	"	
o-Xylene	"	ND	----	0.00314	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00314	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00629	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4
 Toluene-d8
 4-BFB

125% 70 - 140 %
 94.2% 70 - 130 %
 102% 70 - 130 %

"
 "
 "

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

Volatile Organic Compounds by EPA Method 8260B

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-03 (AREA1-H2-14)										
			Soil				Sampled: 04/30/09 14:20			
Toluene	EPA 8260B	0.107	0.107	1.07	mg/kg dry	1x	9D30039	04/30/09 16:11	04/30/09 20:03	J
o-Xylene	"	ND	0.182	1.07	"	"	"	"	"	
m,p-Xylene	"	0.246	0.225	2.14	"	"	"	"	"	J
Xylenes (total)	"	ND	0.332	3.21	"	"	"	"	"	
<i>Surrogate(s):</i>										
	1,2-DCA-d4		96.8%		75 - 125 %	"				"
	Toluene-d8		97.9%		75 - 125 %	"				"
	4-BFB		100%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSD0337-01 (AREA1-D9-7)		Soil								Sampled: 04/30/09 13:00
Dry Weight	BSOPSP003R0 8	65.4	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-02 (AREA1-B3-9)		Soil								Sampled: 04/30/09 14:10
Dry Weight	BSOPSP003R0 8	74.7	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-03 (AREA1-H2-14)		Soil								Sampled: 04/30/09 14:20
Dry Weight	BSOPSP003R0 8	19.9	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-04 (AREA1-H3-14)		Soil								Sampled: 04/30/09 14:30
Dry Weight	BSOPSP003R0 8	78.3	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-05 (AREA1-I2-14)		Soil								Sampled: 04/30/09 14:40
Dry Weight	BSOPSP003R0 8	25.3	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	
BSD0337-06 (AREA1-I3-14)		Soil								Sampled: 04/30/09 14:50
Dry Weight	BSOPSP003R0 8	78.9	----	1.00	%	1x	9D30060	04/30/09 17:05	05/01/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30008 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30008-BLK1)								Extracted: 04/30/09 07:44						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	04/30/09 15:15	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 103%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/30/09 15:15</i>
LCS (9D30008-BS1)								Extracted: 04/30/09 07:44						
Gasoline Range Hydrocarbons	NWTPH-Gx	47.6	1.40	5.00	mg/kg wet	1x	--	50.0	95.1%	(80-120)	--	--	04/30/09 15:47	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 116%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/30/09 15:47</i>
Duplicate (9D30008-DUP1)								QC Source: BSD0328-05		Extracted: 04/30/09 07:44				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	4.65	16.6	mg/kg dry	1x	ND	--	--	--	NR (40)		04/30/09 17:09	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 129%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/30/09 17:09</i>
Matrix Spike (9D30008-MS1)								QC Source: BSD0328-05		Extracted: 04/30/09 07:44				
Gasoline Range Hydrocarbons	NWTPH-Gx	168	4.65	16.6	mg/kg dry	1x	ND	140	120%	(75-130)	--	--	04/30/09 20:23	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 134%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>04/30/09 20:23</i>

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30059 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D30059-BLK1)

Extracted: 04/30/09 17:05

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	04/30/09 18:52	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/30/09 18:52</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9D30059-BS1)

Extracted: 04/30/09 17:05

Lube Oil	NWTPH-Dx	60.5	---	25.0	mg/kg wet	1x	--	66.7	90.8%	(63-125)	--	--	04/30/09 19:15	
Diesel Range Hydrocarbons	"	67.7	---	10.0	"	"	--	"	102%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/30/09 19:15</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9D30059-DUP1)

QC Source: BSD0337-01

Extracted: 04/30/09 17:05

Lube Oil	NWTPH-Dx	ND	---	37.8	mg/kg dry	1x	ND	--	--	--	8.21% (50)	--	04/30/09 19:39	
Kerosene	"	ND	---	15.1	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	15.1	"	"	ND	--	--	--	"	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/30/09 19:39</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9D30059-MS1)

QC Source: BSD0337-01

Extracted: 04/30/09 17:05

Lube Oil	NWTPH-Dx	89.5	---	37.7	mg/kg dry	1x	14.9	101	74.2%	(26-150)	--	--	04/30/09 20:03	
Diesel Range Hydrocarbons	"	98.1	---	15.1	"	"	ND	"	97.6%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>04/30/09 20:03</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30071 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30071-BLK1)								Extracted: 04/30/09 21:34						
Lead	EPA 6020	ND	---	0.510	mg/kg wet	1x	--	--	--	--	--	--	05/01/09 09:02	
LCS (9D30071-BS1)								Extracted: 04/30/09 21:34						
Lead	EPA 6020	40.2	---	0.500	mg/kg wet	1x	--	40.0	100%	(80-120)	--	--	05/01/09 09:08	
Duplicate (9D30071-DUP1)				QC Source: BSD0328-05				Extracted: 04/30/09 21:34						
Lead	EPA 6020	4.47	---	0.733	mg/kg dry	1x	4.53	--	--	--	1.25% (20)	--	05/01/09 09:20	
Matrix Spike (9D30071-MS1)				QC Source: BSD0328-05				Extracted: 04/30/09 21:34						
Lead	EPA 6020	62.8	---	0.747	mg/kg dry	1x	4.53	59.8	97.6%	(75-125)	--	--	05/01/09 09:14	
Post Spike (9D30071-PS1)				QC Source: BSD0328-05				Extracted: 04/30/09 21:34						
Lead	EPA 6020	0.115	---		ug/ml	1x	0.00588	0.100	109%	(80-120)	--	--	05/01/09 09:27	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30037 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30037-BLK1)													Extracted: 04/30/09 15:15	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	04/30/09 16:54	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>124%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/30/09 16:54</i>	
<i>Toluene-d8</i>			<i>94.4%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>104%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9D30037-BS1)													Extracted: 04/30/09 15:15	
Benzene	EPA 8260B	0.0426	---	0.00150	mg/kg wet	1x	--	0.0500	85.3%	(70-125)	--	--	04/30/09 16:03	
Ethylbenzene	"	0.0426	---	0.00400	"	"	--	"	85.1%	"	--	--	"	
Methyl tert-butyl ether	"	0.0490	---	0.00100	"	"	--	"	98.0%	(70-130)	--	--	"	
Naphthalene	"	0.0476	---	0.0100	"	"	--	"	95.2%	"	--	--	"	
Toluene	"	0.0404	---	0.00150	"	"	--	"	80.9%	(70-125)	--	--	"	
Total Xylenes	"	0.130	---	0.0100	"	"	--	0.150	86.8%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/30/09 16:03</i>	
<i>Toluene-d8</i>			<i>96.0%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>99.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D30037-BSD1)													Extracted: 04/30/09 15:15	
Benzene	EPA 8260B	0.0526	---	0.00150	mg/kg wet	1x	--	0.0500	105%	(70-125)	20.9% (30)		04/30/09 16:29	
Ethylbenzene	"	0.0520	---	0.00400	"	"	--	"	104%	"	19.9%	"	"	
Methyl tert-butyl ether	"	0.0547	---	0.00100	"	"	--	"	109%	(70-130)	11.0%	"	"	
Naphthalene	"	0.0543	---	0.0100	"	"	--	"	109%	"	13.1%	"	"	
Toluene	"	0.0486	---	0.00150	"	"	--	"	97.2%	(70-125)	18.3%	"	"	
Total Xylenes	"	0.155	---	0.0100	"	"	--	0.150	103%	(70-130)	17.3%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>04/30/09 16:29</i>	
<i>Toluene-d8</i>			<i>93.5%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>103%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30039 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9D30039-BLK1)													Extracted: 04/30/09 16:11	
Benzene	EPA 8260B	0.0110	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	04/30/09 17:49	J
Ethylbenzene	"	0.0140	0.0120	0.100	"	"	--	--	--	--	--	--	"	J
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	0.0140	0.0100	0.100	"	"	--	--	--	--	--	--	"	J
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	0.0220	0.0210	0.200	"	"	--	--	--	--	--	--	"	J
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>91.2%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/30/09 17:49</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS (9D30039-BS1)													Extracted: 04/30/09 16:11	
Benzene	EPA 8260B	3.96	0.0100	0.0200	mg/kg wet	1x	--	4.00	99.0%	(75-125)	--	--	04/30/09 16:20	B
Ethylbenzene	"	3.98	0.0120	0.100	"	"	--	"	99.5%	"	--	--	"	
Methyl tert-butyl ether	"	3.72	0.0100	0.0500	"	"	--	"	93.0%	"	--	--	"	
Naphthalene	"	3.57	1.10	2.00	"	"	--	"	89.3%	(60-140)	--	--	"	
Toluene	"	3.85	0.0100	0.100	"	"	--	"	96.3%	(75-125)	--	--	"	
o-Xylene	"	3.80	0.0170	0.100	"	"	--	"	94.9%	"	--	--	"	
m,p-Xylene	"	7.58	0.0210	0.200	"	"	--	8.00	94.7%	"	--	--	"	
Xylenes (total)	"	11.4	0.0310	0.300	"	"	--	12.0	94.8%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>90.6%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/30/09 16:20</i>	
<i>Toluene-d8</i>			<i>95.4%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>97.4%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9D30039-BSD1)													Extracted: 04/30/09 16:11	
Benzene	EPA 8260B	3.63	0.0100	0.0200	mg/kg wet	1x	--	4.00	90.8%	(75-125)	8.62% (20)		04/30/09 16:47	B
Ethylbenzene	"	3.63	0.0120	0.100	"	"	--	"	90.7%	"	9.28%	"	"	
Methyl tert-butyl ether	"	3.71	0.0100	0.0500	"	"	--	"	92.7%	"	0.323%	"	"	
Naphthalene	"	3.51	1.10	2.00	"	"	--	"	87.8%	(60-140)	1.75%	"	"	
Toluene	"	3.66	0.0100	0.100	"	"	--	"	91.6%	(75-125)	5.08%	"	"	
o-Xylene	"	3.49	0.0170	0.100	"	"	--	"	87.4%	"	8.31%	"	"	
m,p-Xylene	"	7.06	0.0210	0.200	"	"	--	8.00	88.2%	"	7.15%	"	"	
Xylenes (total)	"	10.6	0.0310	0.300	"	"	--	12.0	87.9%	"	7.53%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>93.6%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>04/30/09 16:47</i>	
<i>Toluene-d8</i>			<i>98.5%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.4%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>	

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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9D30060 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9D30060-BLK1)

Extracted: 04/30/09 17:05

Dry Weight	BSOPSPLO0 3R08	99.9	---	1.00	%	1x	--	--	--	--	--	--	05/01/09 00:00	
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/01/09 16:43

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the Kerosene range are primarily due to overlap from a heavy oil range product
- B - Analyte was detected in the associated Method Blank.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **6500337**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: WMEP Staff		E.O. NUMBER:		in Business Days *	
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses	
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses	
PROJECT NAME: WMEP Phase II				STD.	
PROJECT NUMBER:				STD.	
SAMPLED BY: MATTHEW MUSKIEBIN				OTHER Specify: 24-hr	
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		* Turnaround Requests less than standard may incur Rush Charges.	
1 Area1-D9-7	4-30-09 / 1300	Gr	X	MATRIX (W, S, O)	S
2 "	" / 1410	LEAD	X	# OF CONT.	4
3 "	" / 1420	Dx (w/Hex-Stick)	X	LOCATION/ COMMENTS	Soily gravel brick -01 PED=i. Lepm
4 "	" / 1430	Dx (w/Hex-Stick)	X	TA WO ID	Silt w/sect+gravel -02 3.2 ppm
5 "	" / 1440	Gr	X		Sieved -03 4.7 ppm
6 "	" / 1450	Gr	X		silt w/ Sand -04 Lepm
7					Sieved -05 7.4 ppm
8					Silt w/ Sand -06 1.7 ppm
9					
10					

RELEASED BY: **Matthew Muskibin** DATE: **4-30-09** TIME: **1500** RECEIVED BY: **Francisco Lung, Jr** DATE: **4/30/09**
 PRINT NAME: **Matthew Muskibin** FIRM: **wes** PRINT NAME: **Francisco Lung, Jr** FIRM: **TA-SEA** TIME: **1500**
 RECEIVED BY: DATE: TIME: RECEIVED BY: DATE: TIME:
 PRINT NAME: PRINT NAME:

ADDITIONAL REMARKS: **TCIF all samples w/ total lead \geq 500 mg/kg - low soil method**
@Lab 1545 w/o
 TEMP: **4.5'** PAGE OF

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances? Circle Y or **N** (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)
 Date: 4/30/09 Date: 4/30/09 Date: 4/30 Date: 4/30 Work Order No. BSD0337
 Time: 1545 Time: 1558 Time: 1630 Time: 17:00 Client: _____
 Initials: FL Initials: FL Initials: FL Initials: CL Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs
 _____ None/Other _____ None _____ None/Other Bubble wrap

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ or N or NA _____ UPS TA Courier
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley
 _____ Senvoy _____ TDP
 _____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 4.3 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="checkbox"/> or N _____	Metals Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Provided by TA? <input checked="" type="checkbox"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Correct Type? <input checked="" type="checkbox"/> or N _____	Adequate Volume? <input checked="" type="checkbox"/> or N _____	
#Containers match COC? <input checked="" type="checkbox"/> or N _____	(for tests requested)	Water VOAs: Headspace? Y or N or <input checked="" type="checkbox"/> NA _____
IDs/time/date match COC? <input checked="" type="checkbox"/> or N _____	Comments: _____	
Hold Times in hold? <input checked="" type="checkbox"/> or N _____		

PROJECT MANAGEMENT
 Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete
 Comments, Problems _____

 Total access set up? _____ Y or N

May 04, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/01/09 16:55.
The following list is a summary of the Work Orders contained in this report, generated on 05/04/09
15:55.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0016	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 15:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-I4-14	BSE0016-01	Soil	05/01/09 08:40	05/01/09 16:55
Area1-I5-14	BSE0016-02	Soil	05/01/09 08:50	05/01/09 16:55
Area1-J2-14	BSE0016-03	Soil	05/01/09 09:00	05/01/09 16:55
Area1-J3-14	BSE0016-04	Soil	05/01/09 09:10	05/01/09 16:55
Area1-J4-14	BSE0016-05	Soil	05/01/09 09:20	05/01/09 16:55
Area1-J5-14	BSE0016-06	Soil	05/01/09 09:30	05/01/09 16:55
Area1-K2-14	BSE0016-07	Soil	05/01/09 09:40	05/01/09 16:55
Area1-K3-14	BSE0016-08	Soil	05/01/09 09:50	05/01/09 16:55
Area1-H8-7	BSE0016-09	Soil	05/01/09 10:30	05/01/09 16:55
Area1-H9-7	BSE0016-10	Soil	05/01/09 10:40	05/01/09 16:55
Dup-13	BSE0016-11	Soil	05/01/09 16:00	05/01/09 16:55
Area1-H6-7	BSE0016-12	Soil	05/01/09 14:10	05/01/09 16:55
Area1-H5-7	BSE0016-13	Soil	05/01/09 14:20	05/01/09 16:55

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 15:55
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-01 (Area1-I4-14)		Soil		Sampled: 05/01/09 08:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	305	9.46	33.8	mg/kg dry	5x	9E01006	05/01/09 14:30	05/02/09 05:10	Q9
Surrogate(s): 4-BFB (FID)			137%		75 - 140 %	1x				"
BSE0016-02 (Area1-I5-14)		Soil		Sampled: 05/01/09 08:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	3.33	1.75	6.27	mg/kg dry	1x	9E01006	05/01/09 14:30	05/01/09 20:31	J
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"				"
BSE0016-03 (Area1-J2-14)		Soil		Sampled: 05/01/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	83.3	8.80	31.4	mg/kg dry	1x	9E01006	05/01/09 14:30	05/01/09 21:04	
Surrogate(s): 4-BFB (FID)			149%		75 - 140 %	"				ZX
BSE0016-04 (Area1-J3-14)		Soil		Sampled: 05/01/09 09:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	5.48	2.11	7.55	mg/kg dry	1x	9E01006	05/01/09 14:30	05/01/09 21:36	J
Surrogate(s): 4-BFB (FID)			113%		75 - 140 %	"				"
BSE0016-05 (Area1-J4-14)		Soil		Sampled: 05/01/09 09:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	5.43	1.81	6.48	mg/kg dry	1x	9E01006	05/01/09 14:30	05/01/09 22:09	J
Surrogate(s): 4-BFB (FID)			109%		75 - 140 %	"				"
BSE0016-06 (Area1-J5-14)		Soil		Sampled: 05/01/09 09:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	16.4	2.28	8.15	mg/kg dry	1x	9E01006	05/01/09 14:30	05/02/09 00:19	
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"				"
BSE0016-07 (Area1-K2-14)		Soil		Sampled: 05/01/09 09:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	36.0	14.3	50.9	mg/kg dry	1x	9E01006	05/01/09 14:30	05/02/09 00:51	J
Surrogate(s): 4-BFB (FID)			133%		75 - 140 %	"				"
BSE0016-08 (Area1-K3-14)		Soil		Sampled: 05/01/09 09:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.96	7.01	mg/kg dry	1x	9E01006	05/01/09 14:30	05/02/09 01:23	
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 15:55
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-09 (Area1-H8-7)		Soil		Sampled: 05/01/09 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.66	5.93	mg/kg dry	1x	9E01006	05/01/09 14:30	05/02/09 01:56	
Surrogate(s): 4-BFB (FID)			97.0%		75 - 140 %	"				"
BSE0016-10 (Area1-H9-7)		Soil		Sampled: 05/01/09 10:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.66	5.94	mg/kg dry	1x	9E01006	05/01/09 14:30	05/02/09 02:28	
Surrogate(s): 4-BFB (FID)			100%		75 - 140 %	"				"
BSE0016-11 (Dup-13)		Soil		Sampled: 05/01/09 16:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	69.8	10.5	37.6	mg/kg dry	1x	9E01006	05/01/09 16:30	05/02/09 03:01	
Surrogate(s): 4-BFB (FID)			145%		75 - 140 %	"				ZX
BSE0016-12 (Area1-H6-7)		Soil		Sampled: 05/01/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.89	10.3	mg/kg dry	1x	9E01006	05/01/09 16:30	05/02/09 03:33	
Surrogate(s): 4-BFB (FID)			124%		75 - 140 %	"				"
BSE0016-13 (Area1-H5-7)		Soil		Sampled: 05/01/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.71	6.09	mg/kg dry	1x	9E01006	05/01/09 16:30	05/02/09 04:05	
Surrogate(s): 4-BFB (FID)			100%		75 - 140 %	"				"

TestAmerica Seattle



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 15:55
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-01 (Area1-I4-14)		Soil		Sampled: 05/01/09 08:40						
Lube Oil	NWTPH-Dx	ND	----	31.0	mg/kg dry	1x	9E01032	05/01/09 18:16	05/01/09 23:21	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.0%		54 - 148 %	"				"
<i>Octacosane</i>			100%		62 - 142 %	"				"
BSE0016-02 (Area1-I5-14)		Soil		Sampled: 05/01/09 08:50						
Lube Oil	NWTPH-Dx	ND	----	30.9	mg/kg dry	1x	9E01032	05/01/09 18:16	05/01/09 23:44	
Kerosene	"	ND	----	12.4	"	"	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	R4
<i>Surrogate(s): 2-FBP</i>			97.3%		54 - 148 %	"				"
<i>Octacosane</i>			104%		62 - 142 %	"				"
BSE0016-03 (Area1-J2-14)		Soil		Sampled: 05/01/09 09:00						
Kerosene	NWTPH-Dx	213	----	33.9	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 00:08	Q1
Diesel Range Hydrocarbons	"	1030	----	33.9	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			89.7%		54 - 148 %	"				"
<i>Octacosane</i>			89.2%		62 - 142 %	"				"
BSE0016-03RE1 (Area1-J2-14)		Soil		Sampled: 05/01/09 09:00						
Lube Oil	NWTPH-Dx	2570	----	424	mg/kg dry	5x	9E01032	05/01/09 18:16	05/04/09 09:02	Q1
<i>Surrogate(s): 2-FBP</i>			72.2%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSE0016-04 (Area1-J3-14)		Soil		Sampled: 05/01/09 09:10						
Lube Oil	NWTPH-Dx	ND	----	33.2	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 00:31	
Kerosene	"	ND	----	13.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.5%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 15:55
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-05 (Area1-J4-14)		Soil			Sampled: 05/01/09 09:20					
Lube Oil	NWTPH-Dx	ND	----	31.3	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 00:55	
Kerosene	"	ND	----	12.5	"	"	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	----	12.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.8%		54 - 148 %	"			"	
<i>Octacosane</i>			99.0%		62 - 142 %	"			"	
BSE0016-06 (Area1-J5-14)		Soil			Sampled: 05/01/09 09:30					
Lube Oil	NWTPH-Dx	35.4	----	33.3	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 02:53	Q1
Kerosene	"	18.7	----	13.3	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	143	----	13.3	"	"	"	"	"	QP, Q6
<i>Surrogate(s): 2-FBP</i>			97.3%		54 - 148 %	"			"	
<i>Octacosane</i>			99.3%		62 - 142 %	"			"	
BSE0016-07 (Area1-K2-14)		Soil			Sampled: 05/01/09 09:40					
Lube Oil	NWTPH-Dx	744	----	117	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 03:17	Q1
Kerosene	"	97.4	----	47.0	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	1080	----	47.0	"	"	"	"	"	Q6, QP
<i>Surrogate(s): 2-FBP</i>			92.1%		54 - 148 %	"			"	
<i>Octacosane</i>			102%		62 - 142 %	"			"	
BSE0016-08 (Area1-K3-14)		Soil			Sampled: 05/01/09 09:50					
Lube Oil	NWTPH-Dx	ND	----	32.4	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 03:41	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			99.6%		54 - 148 %	"			"	
<i>Octacosane</i>			104%		62 - 142 %	"			"	
BSE0016-09 (Area1-H8-7)		Soil			Sampled: 05/01/09 10:30					
Lube Oil	NWTPH-Dx	ND	----	28.0	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 04:04	
Kerosene	"	ND	----	11.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			96.7%		54 - 148 %	"			"	
<i>Octacosane</i>			99.4%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 15:55
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-10 (Area1-H9-7)		Soil			Sampled: 05/01/09 10:40					
Lube Oil	NWTPH-Dx	ND	----	29.1	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 04:28	
Kerosene	"	ND	----	11.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			102%		54 - 148 %	"				"
<i>Octacosane</i>			105%		62 - 142 %	"				"
BSE0016-11 (Dup-13)		Soil			Sampled: 05/01/09 16:00					
Lube Oil	NWTPH-Dx	930	----	99.7	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 04:51	Q1
Kerosene	"	165	----	39.9	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	654	----	39.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			91.6%		54 - 148 %	"				"
<i>Octacosane</i>			101%		62 - 142 %	"				"
BSE0016-12 (Area1-H6-7)		Soil			Sampled: 05/01/09 14:10					
Lube Oil	NWTPH-Dx	ND	----	40.0	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 05:15	
Kerosene	"	ND	----	16.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	16.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			96.0%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSE0016-13 (Area1-H5-7)		Soil			Sampled: 05/01/09 14:20					
Lube Oil	NWTPH-Dx	ND	----	29.7	mg/kg dry	1x	9E01032	05/01/09 18:16	05/02/09 05:38	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			99.5%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 15:55

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-01	(Area1-I4-14)	Soil		Sampled: 05/01/09 08:40						
Lead	EPA 6020	38.9	----	0.380	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 08:16	
BSE0016-02	(Area1-I5-14)	Soil		Sampled: 05/01/09 08:50						
Lead	EPA 6020	32.5	----	0.453	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 08:23	
BSE0016-03	(Area1-J2-14)	Soil		Sampled: 05/01/09 09:00						
Lead	EPA 6020	122	----	0.946	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 08:48	
BSE0016-04	(Area1-J3-14)	Soil		Sampled: 05/01/09 09:10						
Lead	EPA 6020	7.48	----	0.445	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 08:54	
BSE0016-05	(Area1-J4-14)	Soil		Sampled: 05/01/09 09:20						
Lead	EPA 6020	13.9	----	0.392	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 09:00	
BSE0016-06	(Area1-J5-14)	Soil		Sampled: 05/01/09 09:30						
Lead	EPA 6020	65.1	----	0.421	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 09:07	
BSE0016-07	(Area1-K2-14)	Soil		Sampled: 05/01/09 09:40						
Lead	EPA 6020	153	----	1.34	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 09:13	
BSE0016-08	(Area1-K3-14)	Soil		Sampled: 05/01/09 09:50						
Lead	EPA 6020	5.53	----	0.454	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 09:19	
BSE0016-09	(Area1-H8-7)	Soil		Sampled: 05/01/09 10:30						
Lead	EPA 6020	1.28	----	0.337	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 09:26	
BSE0016-10	(Area1-H9-7)	Soil		Sampled: 05/01/09 10:40						
Lead	EPA 6020	2.05	----	0.391	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 09:32	
BSE0016-11	(Dup-13)	Soil		Sampled: 05/01/09 16:00						
Lead	EPA 6020	124	----	1.02	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 09:38	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 15:55

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-12 (Area1-H6-7)		Soil		Sampled: 05/01/09 14:10						
Lead	EPA 6020	1.45	----	0.625	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 09:45	
BSE0016-13 (Area1-H5-7)		Soil		Sampled: 05/01/09 14:20						
Lead	EPA 6020	2.15	----	0.438	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 10:10	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 15:55

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-01 (Area1-I4-14)		Soil		Sampled: 05/01/09 08:40						
Benzene	EPA 8260B	0.00864	----	0.00102	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 19:28	
Ethylbenzene	"	0.128	----	0.00272	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000680	"	"	"	"	"	
Naphthalene	"	0.0279	----	0.00680	"	"	"	"	"	
Toluene	"	0.00208	----	0.00102	"	"	"	"	"	
o-Xylene	"	0.0257	----	0.00340	"	"	"	"	"	
m,p-Xylene	"	0.129	----	0.00340	"	"	"	"	"	
Total Xylenes	"	0.155	----	0.00680	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				118%		70 - 140 %	"			"
<i>Toluene-d8</i>				98.1%		70 - 130 %	"			"
<i>4-BFB</i>				105%		70 - 130 %	"			"
BSE0016-02 (Area1-I5-14)		Soil		Sampled: 05/01/09 08:50						
Benzene	EPA 8260B	ND	----	0.00104	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 19:54	
Ethylbenzene	"	ND	----	0.00278	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000695	"	"	"	"	"	
Naphthalene	"	ND	----	0.00695	"	"	"	"	"	
Toluene	"	ND	----	0.00104	"	"	"	"	"	
o-Xylene	"	ND	----	0.00348	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00348	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00695	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				126%		70 - 140 %	"			"
<i>Toluene-d8</i>				98.6%		70 - 130 %	"			"
<i>4-BFB</i>				107%		70 - 130 %	"			"
BSE0016-03 (Area1-J2-14)		Soil		Sampled: 05/01/09 09:00						
Benzene	EPA 8260B	0.0147	----	0.00309	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 20:20	
Methyl tert-butyl ether	"	ND	----	0.00206	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				111%		70 - 140 %	"			"
<i>Toluene-d8</i>				121%		70 - 130 %	"			I
<i>4-BFB</i>				129%		70 - 130 %	"			I

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 15:55
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-04 (Area1-J3-14)		Soil		Sampled: 05/01/09 09:10						
Benzene	EPA 8260B	0.00515	----	0.00114	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 20:45	
Ethylbenzene	"	0.0538	----	0.00304	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000760	"	"	"	"	"	
Naphthalene	"	0.0171	----	0.00760	"	"	"	"	"	
Toluene	"	ND	----	0.00114	"	"	"	"	"	
o-Xylene	"	0.0139	----	0.00380	"	"	"	"	"	
m,p-Xylene	"	0.0680	----	0.00380	"	"	"	"	"	
Total Xylenes	"	0.0819	----	0.00760	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			122%		70 - 140 %	"				"
<i>Toluene-d8</i>			98.4%		70 - 130 %	"				"
<i>4-BFB</i>			102%		70 - 130 %	"				"

BSE0016-05 (Area1-J4-14)		Soil		Sampled: 05/01/09 09:20						
Benzene	EPA 8260B	0.00427	----	0.000966	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 21:11	
Ethylbenzene	"	0.00533	----	0.00258	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000644	"	"	"	"	"	
Naphthalene	"	ND	----	0.00644	"	"	"	"	"	
Toluene	"	0.00236	----	0.000966	"	"	"	"	"	
o-Xylene	"	0.00361	----	0.00322	"	"	"	"	"	
m,p-Xylene	"	0.0111	----	0.00322	"	"	"	"	"	
Total Xylenes	"	0.0147	----	0.00644	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			117%		70 - 140 %	"				"
<i>Toluene-d8</i>			95.1%		70 - 130 %	"				"
<i>4-BFB</i>			104%		70 - 130 %	"				"

BSE0016-06 (Area1-J5-14)		Soil		Sampled: 05/01/09 09:30						
Benzene	EPA 8260B	0.0616	----	0.00121	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 21:36	
Methyl tert-butyl ether	"	ND	----	0.000806	"	"	"	"	"	
Naphthalene	"	0.145	----	0.00806	"	"	"	"	"	
Toluene	"	0.0215	----	0.00121	"	"	"	"	"	
o-Xylene	"	0.0705	----	0.00403	"	"	"	"	"	
m,p-Xylene	"	0.291	----	0.00403	"	"	"	"	"	
Total Xylenes	"	0.361	----	0.00806	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			127%		70 - 140 %	"				"
<i>Toluene-d8</i>			102%		70 - 130 %	"				"
<i>4-BFB</i>			115%		70 - 130 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 15:55

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-07RE1 (Area1-K2-14)		Soil		Sampled: 05/01/09 09:40						
Ethylbenzene	EPA 8260B	ND	----	0.0138	mg/kg dry	1x	9E01024	05/01/09 16:03	05/02/09 01:27	I
Methyl tert-butyl ether	"	ND	----	0.00344	"	"	"	"	"	I
Naphthalene	"	ND	----	0.0344	"	"	"	"	"	I
o-Xylene	"	ND	----	0.0172	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.0172	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.0344	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>126%</i>		<i>70 - 140 %</i>					<i>I</i>
<i>Toluene-d8</i>			<i>127%</i>		<i>70 - 130 %</i>					<i>I</i>
<i>4-BFB</i>			<i>135%</i>		<i>70 - 130 %</i>					<i>I, ZX</i>

BSE0016-08 (Area1-K3-14)		Soil		Sampled: 05/01/09 09:50						
Benzene	EPA 8260B	0.00653	----	0.00100	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 22:27	
Ethylbenzene	"	0.00608	----	0.00268	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000670	"	"	"	"	"	
Naphthalene	"	ND	----	0.00670	"	"	"	"	"	
Toluene	"	ND	----	0.00100	"	"	"	"	"	
o-Xylene	"	ND	----	0.00335	"	"	"	"	"	
m,p-Xylene	"	0.0258	----	0.00335	"	"	"	"	"	
Total Xylenes	"	0.0264	----	0.00670	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>121%</i>		<i>70 - 140 %</i>					
<i>Toluene-d8</i>			<i>96.7%</i>		<i>70 - 130 %</i>					
<i>4-BFB</i>			<i>102%</i>		<i>70 - 130 %</i>					

BSE0016-09 (Area1-H8-7)		Soil		Sampled: 05/01/09 10:30						
Benzene	EPA 8260B	ND	----	0.00107	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 22:53	
Ethylbenzene	"	ND	----	0.00284	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000711	"	"	"	"	"	
Naphthalene	"	ND	----	0.00711	"	"	"	"	"	
Toluene	"	ND	----	0.00107	"	"	"	"	"	
o-Xylene	"	ND	----	0.00355	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00355	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00711	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>122%</i>		<i>70 - 140 %</i>					
<i>Toluene-d8</i>			<i>95.0%</i>		<i>70 - 130 %</i>					
<i>4-BFB</i>			<i>99.7%</i>		<i>70 - 130 %</i>					

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 05/04/09 15:55

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-10 (Area1-H9-7)		Soil		Sampled: 05/01/09 10:40						
Benzene	EPA 8260B	ND	----	0.000999	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 23:19	
Ethylbenzene	"	ND	----	0.00266	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000666	"	"	"	"	"	
Naphthalene	"	ND	----	0.00666	"	"	"	"	"	
Toluene	"	ND	----	0.000999	"	"	"	"	"	
o-Xylene	"	ND	----	0.00333	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00333	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00666	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				113%		70 - 140 %	"			
<i>Toluene-d8</i>				96.4%		70 - 130 %	"			
<i>4-BFB</i>				109%		70 - 130 %	"			
BSE0016-11 (Dup-13)		Soil		Sampled: 05/01/09 16:00						
Benzene	EPA 8260B	0.0125	----	0.00353	mg/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 23:44	
Ethylbenzene	"	0.0108	----	0.00942	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00236	"	"	"	"	"	
Naphthalene	"	ND	----	0.0236	"	"	"	"	"	I
Toluene	"	0.0565	----	0.00353	"	"	"	"	"	
o-Xylene	"	ND	----	0.0118	"	"	"	"	"	
m,p-Xylene	"	0.0191	----	0.0118	"	"	"	"	"	
Total Xylenes	"	0.0255	----	0.0236	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				116%		70 - 140 %	"			
<i>Toluene-d8</i>				112%		70 - 130 %	"			
<i>4-BFB</i>				122%		70 - 130 %	"			I
BSE0016-12 (Area1-H6-7)		Soil		Sampled: 05/01/09 14:10						
Benzene	EPA 8260B	ND	----	0.00128	mg/kg dry	1x	9E01024	05/01/09 16:03	05/02/09 00:10	
Ethylbenzene	"	ND	----	0.00343	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000856	"	"	"	"	"	
Naphthalene	"	ND	----	0.00856	"	"	"	"	"	12
Toluene	"	ND	----	0.00128	"	"	"	"	"	
o-Xylene	"	ND	----	0.00428	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00428	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00856	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				132%		70 - 140 %	"			
<i>Toluene-d8</i>				102%		70 - 130 %	"			
<i>4-BFB</i>				117%		70 - 130 %	"			12

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 15:55

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-13	(Area1-H5-7)	Soil		Sampled: 05/01/09 14:20						
Benzene	EPA 8260B	ND	----	0.000979	mg/kg dry	1x	9E01024	05/01/09 16:03	05/02/09 00:36	
Ethylbenzene	"	ND	----	0.00261	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.000653	"	"	"	"	"	"
Naphthalene	"	ND	----	0.00653	"	"	"	"	"	"
Toluene	"	ND	----	0.000979	"	"	"	"	"	"
o-Xylene	"	ND	----	0.00326	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.00326	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.00653	"	"	"	"	"	"
<i>Surrogate(s):</i>										
	<i>1,2-DCA-d4</i>		<i>121%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>91.9%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>104%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 15:55
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-03 (Area1-J2-14)		Soil			Sampled: 05/01/09 09:00					
Ethylbenzene	EPA 8260B	0.132	0.0755	0.629	mg/kg dry	1x	9E01022	05/01/09 17:30	05/01/09 19:32	J
Naphthalene	"	ND	6.92	12.6	"	"	"	"	"	
Toluene	"	0.264	0.0629	0.629	"	"	"	"	"	J
o-Xylene	"	ND	0.107	0.629	"	"	"	"	"	
m,p-Xylene	"	0.252	0.132	1.26	"	"	"	"	"	J
Xylenes (total)	"	0.314	0.195	1.89	"	"	"	"	"	J

Surrogate(s):	1,2-DCA-d4	90.7%	75 - 125 %	"	"
	Toluene-d8	105%	75 - 125 %	"	"
	4-BFB	106%	75 - 125 %	"	"

BSE0016-06 (Area1-J5-14)		Soil			Sampled: 05/01/09 09:30					
Ethylbenzene	EPA 8260B	0.0961	0.0196	0.163	mg/kg dry	1x	9E01022	05/01/09 17:30	05/01/09 20:52	J
Surrogate(s):	1,2-DCA-d4	87.6%	75 - 125 %	"	"					
	Toluene-d8	104%	75 - 125 %	"	"					
	4-BFB	104%	75 - 125 %	"	"					

BSE0016-07 (Area1-K2-14)		Soil			Sampled: 05/01/09 09:40					
Benzene	EPA 8260B	0.825	0.102	0.204	mg/kg dry	1x	9E01022	05/01/09 17:30	05/01/09 21:19	
Toluene	"	0.855	0.102	1.02	"	"	"	"	"	J
Surrogate(s):	1,2-DCA-d4	90.8%	75 - 125 %	"	"					
	Toluene-d8	102%	75 - 125 %	"	"					
	4-BFB	103%	75 - 125 %	"	"					

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 15:55

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-01 (Area1-I4-14)		Soil								Sampled: 05/01/09 08:40
Dry Weight	BSOPSP003R0 8	79.3	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-02 (Area1-I5-14)		Soil								Sampled: 05/01/09 08:50
Dry Weight	BSOPSP003R0 8	80.6	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-03 (Area1-J2-14)		Soil								Sampled: 05/01/09 09:00
Dry Weight	BSOPSP003R0 8	29.2	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-04 (Area1-J3-14)		Soil								Sampled: 05/01/09 09:10
Dry Weight	BSOPSP003R0 8	74.4	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-05 (Area1-J4-14)		Soil								Sampled: 05/01/09 09:20
Dry Weight	BSOPSP003R0 8	79.3	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-06 (Area1-J5-14)		Soil								Sampled: 05/01/09 09:30
Dry Weight	BSOPSP003R0 8	75.2	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-07 (Area1-K2-14)		Soil								Sampled: 05/01/09 09:40
Dry Weight	BSOPSP003R0 8	21.2	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-08 (Area1-K3-14)		Soil								Sampled: 05/01/09 09:50
Dry Weight	BSOPSP003R0 8	76.5	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-09 (Area1-H8-7)		Soil								Sampled: 05/01/09 10:30
Dry Weight	BSOPSP003R0 8	87.9	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-10 (Area1-H9-7)		Soil								Sampled: 05/01/09 10:40
Dry Weight	BSOPSP003R0 8	85.2	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-11 (Dup-13)		Soil								Sampled: 05/01/09 16:00

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Curtis D. Armstrong For Kate Haney, Project Manager

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0016-11 (Dup-13)		Soil			Sampled: 05/01/09 16:00					
Dry Weight	BSOPSP003R0 8	24.7	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-12 (Area1-H6-7)		Soil			Sampled: 05/01/09 14:10					
Dry Weight	BSOPSP003R0 8	61.5	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	
BSE0016-13 (Area1-H5-7)		Soil			Sampled: 05/01/09 14:20					
Dry Weight	BSOPSP003R0 8	83.3	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01006 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes					
Blank (9E01006-BLK1)										Extracted: 05/01/09 10:28									
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/01/09 12:55						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.8%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/01/09 12:55</i>					
LCS (9E01006-BS1)										Extracted: 05/01/09 10:28									
Gasoline Range Hydrocarbons	NWTPH-Gx	49.9	1.40	5.00	mg/kg wet	1x	--	50.0	99.7%	(80-120)	--	--	05/01/09 13:28						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/01/09 13:28</i>					
Duplicate (9E01006-DUP1)										QC Source: BSD0337-03RE1					Extracted: 05/01/09 10:28				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	0.928	3.32	mg/kg wet	1x	ND	--	--	--	NR (40)		05/01/09 14:33						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 87.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/01/09 14:33</i>	ZX				
Duplicate (9E01006-DUP2)										QC Source: BSE0015-01					Extracted: 05/01/09 13:05				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.18	4.23	mg/kg wet	1x	ND	--	--	--	NR (40)		05/01/09 19:26						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 87.9%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/01/09 19:26</i>					
Matrix Spike (9E01006-MS1)										QC Source: BSD0337-03RE1					Extracted: 05/01/09 10:28				
Gasoline Range Hydrocarbons	NWTPH-Gx	39.3	0.928	3.32	mg/kg wet	1x	ND	33.2	119%	(75-130)	--	--	05/01/09 15:38	M1					
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.5%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/01/09 15:38</i>	ZX				

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 05/04/09 15:55

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01032 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E01032-BLK1)													Extracted: 05/01/09 18:16			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/01/09 21:22			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/01/09 21:22</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
LCS (9E01032-BS1)													Extracted: 05/01/09 18:16			
Lube Oil	NWTPH-Dx	63.1	---	25.0	mg/kg wet	1x	--	66.7	94.6%	(63-125)	--	--	05/01/09 21:46			
Diesel Range Hydrocarbons	"	72.4	---	10.0	"	"	--	"	109%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>98.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/01/09 21:46</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9E01032-DUP1)													QC Source: BSE0016-02		Extracted: 05/01/09 18:16	
Lube Oil	NWTPH-Dx	ND	---	30.8	mg/kg dry	1x	ND	--	--	--	33.8%	(50)	05/01/09 22:10			
Kerosene	"	ND	---	12.3	"	"	ND	--	--	--	"	"	"	R4		
Diesel Range Hydrocarbons	"	ND	---	12.3	"	"	ND	--	--	--	66.7%	"	"	R4		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>92.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/01/09 22:10</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9E01032-DUP2)													QC Source: BSE0016-05		Extracted: 05/01/09 18:16	
Lube Oil	NWTPH-Dx	ND	---	31.3	mg/kg dry	1x	ND	--	--	--	43.7%	(50)	05/01/09 22:34			
Kerosene	"	ND	---	12.5	"	"	ND	--	--	--	"	"	"	R4		
Diesel Range Hydrocarbons	"	ND	---	12.5	"	"	ND	--	--	--	"	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/01/09 22:34</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9E01032-MS1)													QC Source: BSE0016-02		Extracted: 05/01/09 18:16	
Lube Oil	NWTPH-Dx	82.5	---	31.0	mg/kg dry	1x	9.78	82.7	88.0%	(26-150)	--	--	05/01/09 22:57			
Diesel Range Hydrocarbons	"	84.0	---	12.4	"	"	4.88	"	95.7%	(46-155)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/01/09 22:57</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>99.4%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E04002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E04002-BLK1)								Extracted: 05/04/09 05:51						
Lead	EPA 6020	ND	---	0.490	mg/kg wet	1x	--	--	--	--	--	--	05/04/09 07:45	
LCS (9E04002-BS1)								Extracted: 05/04/09 05:51						
Lead	EPA 6020	37.6	---	0.500	mg/kg wet	1x	--	40.0	93.9%	(80-120)	--	--	05/04/09 07:51	
Duplicate (9E04002-DUP1)				QC Source: BSE0016-01				Extracted: 05/04/09 05:51						
Lead	EPA 6020	33.8	---	0.387	mg/kg dry	1x	38.9	--	--	--	14.1% (20)	--	05/04/09 08:10	
Matrix Spike (9E04002-MS1)				QC Source: BSE0016-01				Extracted: 05/04/09 05:51						
Lead	EPA 6020	71.2	---	0.382	mg/kg dry	1x	38.9	30.6	106%	(75-125)	--	--	05/04/09 08:04	
Post Spike (9E04002-PS1)				QC Source: BSE0016-01				Extracted: 05/04/09 05:51						
Lead	EPA 6020	0.201	---		ug/ml	1x	0.102	0.100	98.0%	(80-120)	--	--	05/04/09 07:58	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01024 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E01024-BLK1)													Extracted: 05/01/09 15:03	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/01/09 16:54	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>122%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/01/09 16:54</i>	
<i>Toluene-d8</i>		<i>92.4%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E01024-BS1)													Extracted: 05/01/09 15:03	
Benzene	EPA 8260B	0.0442	---	0.00150	mg/kg wet	1x	--	0.0500	88.4%	(70-125)	--	--	05/01/09 16:02	
Ethylbenzene	"	0.0454	---	0.00400	"	"	--	"	90.9%	"	--	--	"	
Methyl tert-butyl ether	"	0.0460	---	0.00100	"	"	--	"	91.9%	(70-130)	--	--	"	
Naphthalene	"	0.0429	---	0.0100	"	"	--	"	85.8%	"	--	--	"	
Toluene	"	0.0436	---	0.00150	"	"	--	"	87.1%	(70-125)	--	--	"	
Total Xylenes	"	0.137	---	0.0100	"	"	--	0.150	91.2%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.5%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/01/09 16:02</i>	
<i>Toluene-d8</i>		<i>94.4%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>105%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E01024-BSD1)													Extracted: 05/01/09 15:03	
Benzene	EPA 8260B	0.0456	---	0.00150	mg/kg wet	1x	--	0.0500	91.1%	(70-125)	3.10% (30)		05/01/09 16:28	
Ethylbenzene	"	0.0463	---	0.00400	"	"	--	"	92.7%	"	1.96%	"	"	
Methyl tert-butyl ether	"	0.0473	---	0.00100	"	"	--	"	94.6%	(70-130)	2.85%	"	"	
Naphthalene	"	0.0435	---	0.0100	"	"	--	"	87.1%	"	1.53%	"	"	
Toluene	"	0.0441	---	0.00150	"	"	--	"	88.3%	(70-125)	1.28%	"	"	
Total Xylenes	"	0.139	---	0.0100	"	"	--	0.150	92.9%	(70-130)	1.78%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.5%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/01/09 16:28</i>	
<i>Toluene-d8</i>		<i>94.9%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/04/09 15:55
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01022 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E01022-BLK1)													Extracted: 05/01/09 15:30	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	05/01/09 17:43	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 91.6% Limits: 75-125% "</i>														
<i>Toluene-d8 105% 75-125% "</i>														
<i>4-BFB 107% 75-125% "</i>														

LCS (9E01022-BS1)													Extracted: 05/01/09 15:30	
Benzene	EPA 8260B	4.19	0.0100	0.0200	mg/kg wet	1x	--	4.00	105%	(75-125)	--	--	05/01/09 16:07	
Ethylbenzene	"	3.94	0.0120	0.100	"	"	--	"	98.5%	"	--	--	"	
Methyl tert-butyl ether	"	3.70	0.0100	0.0500	"	"	--	"	92.4%	"	--	--	"	
Naphthalene	"	3.48	1.10	2.00	"	"	--	"	87.0%	(60-140)	--	--	"	
Toluene	"	4.12	0.0100	0.100	"	"	--	"	103%	(75-125)	--	--	"	
o-Xylene	"	3.79	0.0170	0.100	"	"	--	"	94.8%	"	--	--	"	
m,p-Xylene	"	7.64	0.0210	0.200	"	"	--	8.00	95.5%	"	--	--	"	
Xylenes (total)	"	11.4	0.0310	0.300	"	"	--	12.0	95.3%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 86.2% Limits: 75-125% "</i>														
<i>Toluene-d8 102% 75-125% "</i>														
<i>4-BFB 105% 75-125% "</i>														

LCS Dup (9E01022-BSD1)													Extracted: 05/01/09 15:30	
Benzene	EPA 8260B	4.33	0.0100	0.0200	mg/kg wet	1x	--	4.00	108%	(75-125)	3.43%	(20)	05/01/09 16:34	
Ethylbenzene	"	4.07	0.0120	0.100	"	"	--	"	102%	"	3.15%	"	"	
Methyl tert-butyl ether	"	3.86	0.0100	0.0500	"	"	--	"	96.4%	"	4.24%	"	"	
Naphthalene	"	3.33	1.10	2.00	"	"	--	"	83.2%	(60-140)	4.49%	"	"	
Toluene	"	4.29	0.0100	0.100	"	"	--	"	107%	(75-125)	3.92%	"	"	
o-Xylene	"	3.86	0.0170	0.100	"	"	--	"	96.4%	"	1.75%	"	"	
m,p-Xylene	"	7.83	0.0210	0.200	"	"	--	8.00	97.9%	"	2.48%	"	"	
Xylenes (total)	"	11.7	0.0310	0.300	"	"	--	12.0	97.4%	"	2.24%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 90.4% Limits: 75-125% "</i>														
<i>Toluene-d8 104% 75-125% "</i>														
<i>4-BFB 101% 75-125% "</i>														

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/04/09 15:55
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01035 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E01035-BLK1)										Extracted: 05/01/09 18:18				
Dry Weight	BSOPSPL00 3R08	99.8	---	1.00	%	1x	--	--	--	--	--	--	05/04/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 15:55

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/04/09 15:55

Notes and Definitions

Report Specific Notes:

- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- Q9 - Hydrocarbon pattern most closely resembles kerosene.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BAF 0014**

CLIENT: Conoco Resources		INVOICE TO: CR		PRESERVATIVE		REQUESTED ANALYSES		TURNAROUND REQUEST			
REPORT TO: WACP Staff		P.O. NUMBER:						in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses			
PHONE:								10 7 5 4 3 2 1 <1 STD.			
PROJECT NAME: WACP Phase II								5 4 3 2 1 <1 STD.			
PROJECT NUMBER:								OTHER Specify: zfh * Turnaround Requests less than standard may incur Rush Charges.			
SAMPLED BY: Matthew McKibbin								MATRIX (W, S, O) LOCATION/ COMMENTS TA WO ID			
1	AAE1-14-14	5-1-09	0840	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	4	silt w/ sand	01
2	"	"	0890	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		4	2 ppm	02
3	"	"	0900	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		5	29 ppm	03
4	"	"	0910	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		4	29 ppm	04
5	"	"	0920	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		4	Sandy silt	05
6	"	"	0930	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		4	Sandy silt	06
7	"	"	0940	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		5	Lead dust	07
8	"	"	0950	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		7	Silt w/ sand	08
9	"	"	1030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		4	Sand	09
10	"	"	1040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		4	0 ppm	10

RECEIVED BY: **[Signature]** DATE: **5-1-09** TIME: **1430** FIRM: **WAS**
 PRINT NAME: **Matthew McKibbin** FIRM: **WAS**
 RECEIVED BY: **[Signature]** DATE: **5-1-09** TIME: **1600** FIRM: **TA-SEA**
 PRINT NAME: **Francisco Luna, Jr.** FIRM: **TA-SEA**
 RECEIVED BY: DATE: TIME: FIRM:
 PRINT NAME: DATE: TIME: FIRM:
 ADDITIONAL REMARKS: **TCP Samples 7 500 mg/kg total lead**
@lab 1655 v10
 TEMP: **2.8°C** PAGE **1** OF **2**
 TAL-1000(0408)

TestAmerica

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 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: *BAE 0016*

CLIENT: <i>Conoco Phillips</i>		INVOICE TO:			
REPORT TO: <i>WMEP Staff</i>		P.O. NUMBER:			
PHONE:	FAX:	PRESERVATIVE			
PROJECT NAME: <i>WMEP Phase II</i>		REQUESTED ANALYSES			
PROJECT NUMBER:					
SAMPLED BY: <i>Matthew McKibbin</i>					
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 <i>DUP-13</i>	<i>5-1-09 / 1410</i>	<i>S</i>	<i>5</i>		<i>11</i>
2 <i>APR-1-46-7</i>	<i>" / 1410</i>	<i>↓</i>	<i>4</i>	<i>Sand</i>	<i>12</i>
3 <i>" -45-7</i>	<i>" / 1420</i>	<i>↓</i>	<i>4</i>	<i>Sand</i> <i>RED = 9ppm</i> <i>Sand</i> <i>C.7 ppm</i>	<i>13</i>
4					
5					
6					
7					
8					
9					
10					

RECEIVED BY: *[Signature]* DATE: *5-1-09* TIME: *1430*
 PRINT NAME: *MATTHEW MCKIBBIN* FIRM: *WFS*
 RECEIVED BY: *[Signature]* DATE: *9/1/09* TIME: *1600*
 PRINT NAME: *Francisco Luns Jr* FIRM: *A-SEA*
 RECEIVED BY: *[Signature]* DATE: *2-8-09* TIME: *1600*
 PRINT NAME: *Lab 1655* FIRM: *w/o*

ADDITIONAL REMARKS: *Lab 1655 w/o*

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances? Circle Y or N (If Y, see other side)

Page Time & Initials: _____

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 5/1/09 Date: 5/1 Date: 05/01/09 Date: _____ *Taken away* Work Order No. BAE0016
 Time: 1655 Time: 17:05 Time: 1715 Time: _____ Client: _____
 Initials: EL Initials: [Signature] Initials: [Signature] Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs
 _____ None/Other _____ None _____ None/Other Bubble wrap

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ Y or N or NA UPS TA Courier
 _____ None/Other _____ Initial/date/time [Signature] 5/1 17:30 _____ DHL _____ Mid Valley
 _____ Senvoy _____ TDP
 _____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 2.8 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="checkbox"/> or N _____	Metals Preserved? Y or N or <input checked="" type="checkbox"/> _____	
Provided by TA? <input checked="" type="checkbox"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="checkbox"/> _____	
Correct Type? <input checked="" type="checkbox"/> or N _____	Adequate Volume? <input checked="" type="checkbox"/> or N _____	
#Containers match COC? <input checked="" type="checkbox"/> or N _____	(for tests requested)	
IDs/time/date match COC? Y or <input checked="" type="checkbox"/> _____	Water VOAs: Headspace? Y or N or <input checked="" type="checkbox"/> _____	
Hold Times in hold? <input checked="" type="checkbox"/> or N _____	Comments: _____	

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

May 04, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 05/01/09 16:55.
The following list is a summary of the Work Orders contained in this report, generated on 05/04/09
15:27.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0018	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/04/09 15:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot 34-14	BSE0018-01	Soil	05/01/09 07:30	05/01/09 16:55

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/04/09 15:27
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0018-01 (Amazon Lot 34-14)		Soil			Sampled: 05/01/09 07:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.84	mg/kg dry	1x	9E01006	05/01/09 14:30	05/02/09 04:38	
Surrogate(s): 4-BFB (FID)			89.6%		75 - 140 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/04/09 15:27
--	--	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0018-01 (Amazon Lot 34-14)		Soil			Sampled: 05/01/09 07:30					
Lube Oil	NWTPH-Dx	ND	----	26.6	mg/kg dry	1x	9E01033	05/01/09 18:17	05/02/09 08:47	
Kerosene	"	ND	----	10.6	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	10.6	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>			106%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/04/09 15:27

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0018-01	(Amazon Lot 34-14)									
		Soil					Sampled: 05/01/09 07:30			
Arsenic	EPA 6020	1.54	----	0.364	mg/kg dry	1x	9E04002	05/04/09 05:51	05/04/09 10:16	
Barium	"	34.5	----	3.64	"	"	"	"	"	
Cadmium	"	ND	----	0.364	"	"	"	"	"	
Chromium	"	21.2	----	0.364	"	"	"	"	"	
Lead	"	2.37	----	0.364	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0994	"	"	9E04028	05/04/09 11:19	05/04/09 12:44	
Selenium	EPA 6020	ND	----	0.728	"	"	9E04002	05/04/09 05:51	05/04/09 10:16	
Silver	"	ND	----	0.364	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/04/09 15:27

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0018-01 (Amazon Lot 34-14)										
		Soil					Sampled: 05/01/09 07:30			
Acetone	EPA 8260B	ND	----	29.1	ug/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 19:03	
Benzene	"	ND	----	1.09	"	"	"	"	"	
Bromobenzene	"	ND	----	3.63	"	"	"	"	"	
Bromochloromethane	"	ND	----	3.63	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.63	"	"	"	"	"	
Bromoform	"	ND	----	3.63	"	"	"	"	"	
Bromomethane	"	ND	----	7.27	"	"	"	"	"	
2-Butanone	"	ND	----	21.8	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.63	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	3.63	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	3.63	"	"	"	"	"	
Carbon disulfide	"	ND	----	2.18	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.63	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.45	"	"	"	"	"	
Chloroethane	"	ND	----	3.63	"	"	"	"	"	
Chloroform	"	ND	----	1.82	"	"	"	"	"	
Chloromethane	"	ND	----	7.27	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.63	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	3.63	"	"	"	"	"	
Dibromochloromethane	"	ND	----	3.63	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	7.27	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	3.63	"	"	"	"	"	
Dibromomethane	"	ND	----	3.63	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.63	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	3.63	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	3.63	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	3.63	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.45	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.908	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	2.18	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	2.18	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.82	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.63	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.63	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	7.27	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.63	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.63	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.908	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.91	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	7.27	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.727	"	"	"	"	"	
n-Hexane	"	ND	----	3.63	"	"	"	"	"	
2-Hexanone	"	ND	----	21.8	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/04/09 15:27

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0018-01 (Amazon Lot 34-14)		Soil		Sampled: 05/01/09 07:30						
Isopropylbenzene	EPA 8260B	ND	----	3.63	ug/kg dry	1x	9E01024	05/01/09 16:03	05/01/09 19:03	
p-Isopropyltoluene	"	ND	----	3.63	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	21.8	"	"	"	"	"	
Methylene chloride	"	ND	----	8.72	"	"	"	"	"	
Naphthalene	"	ND	----	7.27	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.63	"	"	"	"	"	
Styrene	"	ND	----	1.82	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	7.27	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	7.27	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.63	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.63	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.45	"	"	"	"	"	
Toluene	"	ND	----	1.09	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.82	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.45	"	"	"	"	"	
Trichloroethene	"	ND	----	1.82	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.63	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.63	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.63	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.63	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.82	"	"	"	"	"	
o-Xylene	"	ND	----	3.63	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.63	"	"	"	"	"	
Total Xylenes	"	ND	----	7.27	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>114%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>93.6%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>105%</i>	<i>70 - 130 %</i>						

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/04/09 15:27

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0018-01 (Amazon Lot 34-14)		Soil					Sampled: 05/01/09 07:30			
Acenaphthene	8270C-SIM	ND	----	0.0107	mg/kg dry	1x	9E01034	05/01/09 18:18	05/04/09 13:18	
Acenaphthylene	"	ND	----	0.0107	"	"	"	"	"	"
Anthracene	"	ND	----	0.0107	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0107	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0107	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0107	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0107	"	"	"	"	"	"
Benzo (b & k) fluoranthene	"	ND	----	0.0214	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0107	"	"	"	"	"	"
Chrysene	"	ND	----	0.0107	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0107	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0107	"	"	"	"	"	"
Fluorene	"	ND	----	0.0107	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0107	"	"	"	"	"	"
1-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	"
2-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0107	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0107	"	"	"	"	"	"
Pyrene	"	ND	----	0.0107	"	"	"	"	"	"
<i>Surrogate(s): p-Terphenyl-d14</i>			60.4%		46 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/04/09 15:27
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0018-01	(Amazon Lot 34-14)									
		Soil			Sampled: 05/01/09 07:30					
Dry Weight	BSOPSP003R0 8	93.5	----	1.00	%	1x	9E01035	05/01/09 18:18	05/04/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/04/09 15:27
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01006 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E01006-BLK1)								Extracted: 05/01/09 10:28						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/01/09 12:55	
Surrogate(s): 4-BFB (FID)		Recovery: 85.8%	Limits: 75-140%		"		05/01/09 12:55							
LCS (9E01006-BS1)								Extracted: 05/01/09 10:28						
Gasoline Range Hydrocarbons	NWTPH-Gx	49.9	---	5.00	mg/kg wet	1x	--	50.0	99.7%	(80-120)	--	--	05/01/09 13:28	
Surrogate(s): 4-BFB (FID)		Recovery: 94.7%	Limits: 75-140%		"		05/01/09 13:28							
Duplicate (9E01006-DUP1)				QC Source: BSD0337-03RE1				Extracted: 05/01/09 10:28						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	3.32	mg/kg wet	1x	ND	--	--	--	NR (40)		05/01/09 14:33	
Surrogate(s): 4-BFB (FID)		Recovery: 87.0%	Limits: 75-140%		"		05/01/09 14:33							ZX
Duplicate (9E01006-DUP2)				QC Source: BSE0015-01				Extracted: 05/01/09 13:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	4.23	mg/kg wet	1x	ND	--	--	--	NR (40)		05/01/09 19:26	
Surrogate(s): 4-BFB (FID)		Recovery: 87.9%	Limits: 75-140%		"		05/01/09 19:26							
Matrix Spike (9E01006-MS1)				QC Source: BSD0337-03RE1				Extracted: 05/01/09 10:28						
Gasoline Range Hydrocarbons	NWTPH-Gx	39.3	---	3.32	mg/kg wet	1x	ND	33.2	119%	(75-130)	--	--	05/01/09 15:38	M1
Surrogate(s): 4-BFB (FID)		Recovery: 98.5%	Limits: 75-140%		"		05/01/09 15:38							ZX

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/04/09 15:27
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01033 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E01033-BLK1)

Extracted: 05/01/09 18:17

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/02/09 07:13	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/02/09 07:13</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E01033-BS1)

Extracted: 05/01/09 18:17

Lube Oil	NWTPH-Dx	63.9	---	25.0	mg/kg wet	1x	--	66.7	95.8%	(63-125)	--	--	05/02/09 07:36	
Diesel Range Hydrocarbons	"	72.8	---	10.0	"	"	--	"	109%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/02/09 07:36</i>	
<i>Octacosane</i>			<i>103%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E01033-DUP1)

QC Source: BSE0018-01

Extracted: 05/01/09 18:17

Lube Oil	NWTPH-Dx	ND	---	26.7	mg/kg dry	1x	ND	--	--	--	32.4% (50)	--	05/02/09 08:00	
Kerosene	"	ND	---	10.7	"	"	ND	--	--	--	3.24%	"	"	
Diesel Range Hydrocarbons	"	ND	---	10.7	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/02/09 08:00</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E01033-MS1)

QC Source: BSE0018-01

Extracted: 05/01/09 18:17

Lube Oil	NWTPH-Dx	71.5	---	26.5	mg/kg dry	1x	9.75	70.6	87.4%	(26-150)	--	--	05/02/09 08:23	
Diesel Range Hydrocarbons	"	76.0	---	10.6	"	"	0.949	"	106%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>97.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/02/09 08:23</i>	
<i>Octacosane</i>			<i>106%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/04/09 15:27
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E04002	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E04002-BLK1)

Extracted: 05/04/09 05:51

Arsenic	EPA 6020	ND	---	0.490	mg/kg wet	1x	--	--	--	--	--	--	05/04/09 07:45	
Lead	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.980	"	"	--	--	--	--	--	--	05/04/09 10:29	
Barium	"	ND	---	4.90	"	"	--	--	--	--	--	--	05/04/09 07:45	
Cadmium	"	ND	---	0.490	"	"	--	--	--	--	--	--	"	

LCS (9E04002-BS1)

Extracted: 05/04/09 05:51

Chromium	EPA 6020	38.1	---	0.500	mg/kg wet	1x	--	40.0	95.3%	(80-120)	--	--	05/04/09 07:51	
Selenium	"	41.4	---	1.00	"	"	--	"	103%	"	--	--	05/04/09 10:35	
Lead	"	37.6	---	0.500	"	"	--	"	93.9%	"	--	--	05/04/09 07:51	
Silver	"	38.9	---	0.500	"	"	--	"	97.2%	"	--	--	"	
Barium	"	38.8	---	5.00	"	"	--	"	97.1%	"	--	--	"	
Arsenic	"	38.0	---	0.500	"	"	--	"	95.0%	"	--	--	"	
Cadmium	"	36.9	---	0.500	"	"	--	"	92.1%	"	--	--	"	

Duplicate (9E04002-DUP1)

QC Source: BSE0016-01

Extracted: 05/04/09 05:51

Cadmium	EPA 6020	ND	---	0.387	mg/kg dry	1x	ND	--	--	--	23.2%	(20)	05/04/09 08:10	R4
Selenium	"	ND	---	0.774	"	"	ND	--	--	--	NR	"	05/04/09 10:54	
Lead	"	33.8	---	0.387	"	"	38.9	--	--	--	14.1%	"	05/04/09 08:10	
Chromium	"	29.2	---	0.387	"	"	31.0	--	--	--	6.06%	"	"	
Barium	"	82.6	---	3.87	"	"	75.9	--	--	--	8.45%	"	"	
Silver	"	ND	---	0.387	"	"	ND	--	--	--	1.82%	"	"	
Arsenic	"	2.81	---	0.387	"	"	3.09	--	--	--	9.61%	"	"	

Matrix Spike (9E04002-MS1)

QC Source: BSE0016-01

Extracted: 05/04/09 05:51

Arsenic	EPA 6020	30.1	---	0.382	mg/kg dry	1x	3.09	30.6	88.3%	(75-125)	--	--	05/04/09 08:04	
Barium	"	114	---	3.82	"	"	75.9	"	126%	"	--	--	"	M1
Selenium	"	28.3	---	0.764	"	"	ND	"	92.6%	"	--	--	05/04/09 10:47	
Silver	"	25.1	---	0.382	"	"	0.118	"	81.8%	"	--	--	05/04/09 08:04	
Chromium	"	55.3	---	0.382	"	"	31.0	"	79.5%	"	--	--	"	
Lead	"	71.2	---	0.382	"	"	38.9	"	106%	"	--	--	"	
Cadmium	"	27.8	---	0.382	"	"	0.205	"	90.3%	"	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/04/09 15:27
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E04002	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Post Spike (9E04002-PS1)			QC Source: BSE0016-01				Extracted: 05/04/09 05:51								
Silver	EPA 6020	0.0964	---		ug/ml	1x	0.000310	0.100	96.1%	(80-120)	--	--	05/04/09 07:58		
Cadmium	"	0.101	---		"	"	0.000540	"	101%	"	--	--	"		
Chromium	"	0.182	---		"	"	0.0817	"	99.6%	"	--	--	"		
Barium	"	0.307	---		"	"	0.200	"	107%	"	--	--	"		
Selenium	"	0.104	---		"	"	0.000560	"	103%	"	--	--	05/04/09 10:41		
Arsenic	"	0.108	---		"	"	0.00814	0.0995	101%	"	--	--	05/04/09 07:58		
Lead	"	0.201	---		"	"	0.102	0.100	98.0%	"	--	--	"		

QC Batch: 9E04028	Soil Preparation Method: EPA 7471A
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9E04028-BLK1)							Extracted: 05/04/09 11:19								
Mercury	EPA 7471A	ND	---	0.0998	mg/kg wet	1x	--	--	--	--	--	--	05/04/09 12:32		
LCS (9E04028-BS1)							Extracted: 05/04/09 11:19								
Mercury	EPA 7471A	0.604	---	0.100	mg/kg wet	1x	--	0.669	90.3%	(80-120)	--	--	05/04/09 12:34		
LCS Dup (9E04028-BSD1)							Extracted: 05/04/09 11:19								
Mercury	EPA 7471A	0.587	---	0.0989	mg/kg wet	1x	--	0.659	89.0%	(80-120)	2.91%	(20)	05/04/09 12:37		
Matrix Spike (9E04028-MS1)			QC Source: BSE0018-01				Extracted: 05/04/09 11:19								
Mercury	EPA 7471A	0.649	---	0.0993	mg/kg dry	1x	0.0146	0.662	95.8%	(80-125)	--	--	05/04/09 12:39		
Matrix Spike Dup (9E04028-MSD1)			QC Source: BSE0018-01				Extracted: 05/04/09 11:19								
Mercury	EPA 7471A	0.625	---	0.0979	mg/kg dry	1x	0.0146	0.653	93.6%	(80-125)	3.69%	(30)	05/04/09 12:42		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/04/09 15:27

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9E01024

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E01024-BLK1)													Extracted: 05/01/09 15:03	
Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	05/01/09 16:54	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	05/04/09 15:27
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01024 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E01024-BLK1)													Extracted: 05/01/09 15:03	
Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	05/01/09 16:54	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 122%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>05/01/09 16:54</i>	
<i>Toluene-d8</i>		<i>92.4%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/04/09 15:27

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9E01024

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9E01024-BS1)													Extracted: 05/01/09 15:03	
Acetone	EPA 8260B	534	---	40.0	ug/kg wet	1x	--	500	107%	(60-140)	--	--	05/01/09 16:02	
Benzene	"	44.2	---	1.50	"	"	--	50.0	88.4%	(70-125)	--	--	"	
2-Butanone	"	496	---	30.0	"	"	--	500	99.3%	(60-140)	--	--	"	
Carbon disulfide	"	44.6	---	3.00	"	"	--	50.0	89.3%	(70-130)	--	--	"	
Chlorobenzene	"	44.2	---	2.00	"	"	--	"	88.5%	(70-125)	--	--	"	
1,1-Dichloroethane	"	45.1	---	2.00	"	"	--	"	90.3%	(75-125)	--	--	"	
1,1-Dichloroethene	"	44.8	---	3.00	"	"	--	"	89.5%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	44.7	---	3.00	"	"	--	"	89.3%	(75-125)	--	--	"	
Ethylbenzene	"	45.4	---	4.00	"	"	--	"	90.9%	(70-125)	--	--	"	
Hexachlorobutadiene	"	45.2	---	10.0	"	"	--	"	90.4%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	559	---	30.0	"	"	--	500	112%	(60-140)	--	--	"	
Tetrachloroethene	"	44.7	---	2.00	"	"	--	50.0	89.3%	(70-125)	--	--	"	
Toluene	"	43.6	---	1.50	"	"	--	"	87.1%	"	--	--	"	
1,1,1-Trichloroethane	"	46.6	---	2.50	"	"	--	"	93.2%	(70-130)	--	--	"	
Trichloroethene	"	45.1	---	2.50	"	"	--	"	90.2%	(70-125)	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	99.5%	Limits:	70-140%	"	05/01/09 16:02
	Toluene-d8		94.4%		70-130%	"	"
	4-BFB		105%		70-130%	"	"

LCS Dup (9E01024-BS1)

Extracted: 05/01/09 15:03

Acetone	EPA 8260B	539	---	40.0	ug/kg wet	1x	--	500	108%	(60-140)	0.858% (30)	05/01/09 16:28	
Benzene	"	45.6	---	1.50	"	"	--	50.0	91.1%	(70-125)	3.10%	"	
2-Butanone	"	493	---	30.0	"	"	--	500	98.7%	(60-140)	0.604%	"	
Carbon disulfide	"	45.4	---	3.00	"	"	--	50.0	90.8%	(70-130)	1.64%	"	
Chlorobenzene	"	45.2	---	2.00	"	"	--	"	90.4%	(70-125)	2.21%	"	
1,1-Dichloroethane	"	46.7	---	2.00	"	"	--	"	93.5%	(75-125)	3.48%	"	
1,1-Dichloroethene	"	45.4	---	3.00	"	"	--	"	90.7%	(70-130)	1.38%	"	
cis-1,2-Dichloroethene	"	46.5	---	3.00	"	"	--	"	93.0%	(75-125)	4.01%	"	
Ethylbenzene	"	46.3	---	4.00	"	"	--	"	92.7%	(70-125)	1.96%	"	
Hexachlorobutadiene	"	45.4	---	10.0	"	"	--	"	90.8%	(70-130)	0.420%	"	
4-Methyl-2-pentanone	"	557	---	30.0	"	"	--	500	111%	(60-140)	0.283%	"	
Tetrachloroethene	"	45.3	---	2.00	"	"	--	50.0	90.7%	(70-125)	1.47%	"	
Toluene	"	44.1	---	1.50	"	"	--	"	88.3%	"	1.28%	"	
1,1,1-Trichloroethane	"	47.1	---	2.50	"	"	--	"	94.2%	(70-130)	0.982%	"	
Trichloroethene	"	46.9	---	2.50	"	"	--	"	93.8%	(70-125)	3.91%	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	99.5%	Limits:	70-140%	"	05/01/09 16:28
	Toluene-d8		94.9%		70-130%	"	"
	4-BFB		103%		70-130%	"	"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	05/04/09 15:27
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01034 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E01034-BLK1)													Extracted: 05/01/09 18:18	
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	05/04/09 10:35	
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b & k) fluoranthene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): p-Terphenyl-d14</i>													05/04/09 10:35	
			<i>Recovery: 61.6%</i>			<i>Limits: 46-125%</i>								

LCS (9E01034-BS1)													Extracted: 05/01/09 18:18	
Acenaphthene	8270C-SIM	0.579	---	0.0100	mg/kg wet	1x	--	0.667	86.9%	(65-130)	--	--	05/04/09 11:08	
Acenaphthylene	"	0.596	---	0.0100	"	"	--	"	89.4%	(67-142)	--	--	"	
Anthracene	"	0.702	---	0.0100	"	"	--	"	105%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.603	---	0.0100	"	"	--	"	90.4%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.620	---	0.0100	"	"	--	"	93.0%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.611	---	0.0100	"	"	--	"	91.7%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.620	---	0.0100	"	"	--	"	93.0%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.587	---	0.0100	"	"	--	"	88.0%	"	--	--	"	
Chrysene	"	0.642	---	0.0100	"	"	--	"	96.3%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.566	---	0.0100	"	"	--	"	84.8%	(56-149)	--	--	"	
Fluoranthene	"	0.731	---	0.0100	"	"	--	"	110%	(72-145)	--	--	"	
Fluorene	"	0.658	---	0.0100	"	"	--	"	98.8%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.561	---	0.0100	"	"	--	"	84.1%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.605	---	0.0100	"	"	--	"	90.8%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.612	---	0.0100	"	"	--	"	91.8%	(56-124)	--	--	"	
Naphthalene	"	0.562	---	0.0100	"	"	--	"	84.3%	(56-146)	--	--	"	
Phenanthrene	"	0.569	---	0.0100	"	"	--	"	85.3%	(64-139)	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/04/09 15:27
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01034 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9E01034-BS1)													Extracted: 05/01/09 18:18	
Pyrene	8270C-SIM	0.522	---	0.0100	mg/kg wet	1x	--	0.667	78.3%	(58-149)	--	--	05/04/09 11:08	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 59.5%</i>		<i>Limits: 46-125%</i>		<i>"</i>						<i>05/04/09 11:08</i>		

Matrix Spike (9E01034-MS1)													QC Source: BSE0018-01	Extracted: 05/01/09 18:18
Acenaphthene	8270C-SIM	0.541	---	0.0107	mg/kg dry	1x	ND	0.713	75.8%	(64-140)	--	--	05/04/09 11:40	
Acenaphthylene	"	0.568	---	0.0107	"	"	ND	"	79.7%	(66-150)	--	--	"	
Anthracene	"	0.724	---	0.0107	"	"	ND	"	101%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.594	---	0.0107	"	"	0.00399	"	82.8%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.597	---	0.0107	"	"	0.00321	"	83.2%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.598	---	0.0107	"	"	0.00264	"	83.5%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.584	---	0.0107	"	"	0.00485	"	81.2%	"	--	--	"	
Benzo (ghi) perylene	"	0.571	---	0.0107	"	"	0.00278	"	79.7%	"	--	--	"	
Chrysene	"	0.639	---	0.0107	"	"	0.00485	"	88.9%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.546	---	0.0107	"	"	ND	"	76.5%	(55-150)	--	--	"	
Fluoranthene	"	0.751	---	0.0107	"	"	0.00934	"	104%	(70-150)	--	--	"	
Fluorene	"	0.639	---	0.0107	"	"	ND	"	89.6%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.541	---	0.0107	"	"	0.00207	"	75.6%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.556	---	0.0107	"	"	ND	"	77.9%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.566	---	0.0107	"	"	ND	"	79.3%	(50-140)	--	--	"	
Naphthalene	"	0.513	---	0.0107	"	"	ND	"	72.0%	(47-147)	--	--	"	
Phenanthrene	"	0.587	---	0.0107	"	"	0.00214	"	82.0%	(56-150)	--	--	"	
Pyrene	"	0.525	---	0.0107	"	"	0.00770	"	72.6%	(57-150)	--	--	"	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 56.0%</i>		<i>Limits: 46-125%</i>		<i>"</i>						<i>05/04/09 11:40</i>		

Matrix Spike Dup (9E01034-MSD1)													QC Source: BSE0018-01	Extracted: 05/01/09 18:18
Acenaphthene	8270C-SIM	0.558	---	0.0106	mg/kg dry	1x	ND	0.706	79.0%	(64-140)	3.09% (41)		05/04/09 12:13	
Acenaphthylene	"	0.579	---	0.0106	"	"	ND	"	82.0%	(66-150)	1.85%	"	"	
Anthracene	"	0.728	---	0.0106	"	"	ND	"	103%	(54-150)	0.628%	"	"	
Benzo (a) anthracene	"	0.599	---	0.0106	"	"	0.00399	"	84.3%	(57-150)	0.789%	"	"	
Benzo (a) pyrene	"	0.614	---	0.0106	"	"	0.00321	"	86.6%	(55-150)	2.95% (35)	"	"	
Benzo (b) fluoranthene	"	0.611	---	0.0106	"	"	0.00264	"	86.2%	(54-150)	2.24% (41)	"	"	
Benzo (k) fluoranthene	"	0.590	---	0.0106	"	"	0.00485	"	82.8%	"	0.916%	"	"	
Benzo (ghi) perylene	"	0.597	---	0.0106	"	"	0.00278	"	84.1%	"	4.43%	"	"	
Chrysene	"	0.647	---	0.0106	"	"	0.00485	"	91.0%	(65-150)	1.36% (40)	"	"	
Dibenz (a,h) anthracene	"	0.577	---	0.0106	"	"	ND	"	81.7%	(55-150)	5.54% (41)	"	"	
Fluoranthene	"	0.758	---	0.0106	"	"	0.00934	"	106%	(70-150)	0.877%	"	"	
Fluorene	"	0.647	---	0.0106	"	"	ND	"	91.6%	(74-150)	1.23% (44)	"	"	
Indeno (1,2,3-cd) pyrene	"	0.569	---	0.0106	"	"	0.00207	"	80.3%	(50-150)	5.05%	"	"	
1-Methylnaphthalene	"	0.573	---	0.0106	"	"	ND	"	81.2%	(45-145)	3.14% (41)	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/04/09 15:27
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01034 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9E01034-MSD1)			QC Source: BSE0018-01				Extracted: 05/01/09 18:18							
2-Methylnaphthalene	8270C-SIM	0.583	---	0.0106	mg/kg dry	1x	ND	0.706	82.6%	(50-140)	3.07% (41)		05/04/09 12:13	
Naphthalene	"	0.536	---	0.0106	"	"	ND	"	75.9%	(47-147)	4.33% "		"	
Phenanthrene	"	0.595	---	0.0106	"	"	0.00214	"	83.9%	(56-150)	1.29% "		"	
Pyrene	"	0.531	---	0.0106	"	"	0.00770	"	74.1%	(57-150)	1.07% "		"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 56.7%		Limits: 46-125%		"								05/04/09 12:13

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/04/09 15:27
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E01035 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E01035-BLK1)										Extracted: 05/01/09 18:18				
Dry Weight	BSOPSPL00 3R08	99.8	---	1.00	%	1x	--	--	--	--	--	--	05/04/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/04/09 15:27

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/04/09 15:27

Notes and Definitions

Report Specific Notes:

- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____

(applies to temp at receipt)

Date: 5/1/09

Date: 5/1

Date: 5/1

Date: 05/01/09 Work Order No. BAE 0018

Time: 1655

Time: 17:28

Time: 17:30

Time: 1730 Client: _____

Initials: EL

Initials: CB

Initials: W

Initials: SP Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

____ Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

None/Other Bubble Wrap

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 2.8 or NA comments _____

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved?

Y or N or NA

Provided by TA? or N _____

Client QAPP Preserved?

Y or N or NA

Correct Type? or N _____

Adequate Volume?

or N _____

#Containers match COC? or N _____

(for tests requested)

Water VOAs: Headspace? Y or N or NA

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

May 05, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/04/09 15:45.
The following list is a summary of the Work Orders contained in this report, generated on 05/05/09
17:43.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0033	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-C1-14	BSE0033-01	Soil	05/04/09 09:50	05/04/09 15:45
Area1-C1-9	BSE0033-02	Soil	05/04/09 10:00	05/04/09 15:45
Area1-D1-14	BSE0033-03	Soil	05/04/09 10:10	05/04/09 15:45
Area1-D1-9	BSE0033-04	Soil	05/04/09 10:20	05/04/09 15:45
Area1-E1-14	BSE0033-05	Soil	05/04/09 10:30	05/04/09 15:45
Area1-E1-9	BSE0033-06	Soil	05/04/09 10:40	05/04/09 15:45
Area1-F1-14	BSE0033-07	Soil	05/04/09 10:50	05/04/09 15:45
Area1-F1-9	BSE0033-08	Soil	05/04/09 11:00	05/04/09 15:45
Area1-G1-14	BSE0033-09	Soil	05/04/09 11:10	05/04/09 15:45
Area1-G1-9	BSE0033-10	Soil	05/04/09 11:20	05/04/09 15:45
Area1-H1-14	BSE0033-11	Soil	05/04/09 11:30	05/04/09 15:45
Area1-H1-9	BSE0033-12	Soil	05/04/09 11:40	05/04/09 15:45
Dup-14	BSE0033-13	Soil	05/04/09 15:00	05/04/09 15:45
Area1-D9-1.5	BSE0033-14	Soil	05/04/09 12:30	05/04/09 15:45
Area1-D8-2	BSE0033-15	Soil	05/04/09 13:40	05/04/09 15:45
Area1-B3-7	BSE0033-16	Soil	05/04/09 14:20	05/04/09 15:45

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-01 (Area1-C1-14)		Soil		Sampled: 05/04/09 09:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.72	6.14	mg/kg dry	1x	9E04051	05/04/09 17:07	05/04/09 18:23	
Surrogate(s): 4-BFB (FID)			97.6%		75 - 140 %	"				"
BSE0033-02 (Area1-C1-9)		Soil		Sampled: 05/04/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	219	2.04	7.28	mg/kg dry	1x	9E04051	05/04/09 17:07	05/04/09 19:24	Q1
Surrogate(s): 4-BFB (FID)			302%		75 - 140 %	"				ZX
BSE0033-03 (Area1-D1-14)		Soil		Sampled: 05/04/09 10:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	218	1.99	7.11	mg/kg dry	1x	9E04051	05/04/09 17:07	05/04/09 20:24	Q8
Surrogate(s): 4-BFB (FID)			293%		75 - 140 %	"				ZX
BSE0033-04 (Area1-D1-9)		Soil		Sampled: 05/04/09 10:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	10.8	2.68	9.56	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 08:02	
Surrogate(s): 4-BFB (FID)			110%		75 - 140 %	"				
BSE0033-05 (Area1-E1-14)		Soil		Sampled: 05/04/09 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	14.8	6.90	24.7	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 08:32	J
Surrogate(s): 4-BFB (FID)			157%		75 - 140 %	"				ZX
BSE0033-06 (Area1-E1-9)		Soil		Sampled: 05/04/09 10:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	17.4	10.0	35.8	mg/kg dry	1x	9E04051	05/04/09 17:07	05/04/09 23:26	J
Surrogate(s): 4-BFB (FID)			153%		75 - 140 %	"				ZX
BSE0033-07 (Area1-F1-14)		Soil		Sampled: 05/04/09 10:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.84	2.28	8.16	mg/kg dry	1x	9E04051	05/04/09 17:07	05/04/09 23:56	J
Surrogate(s): 4-BFB (FID)			110%		75 - 140 %	"				
BSE0033-08 (Area1-F1-9)		Soil		Sampled: 05/04/09 11:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	25.5	11.5	41.0	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 00:26	J
Surrogate(s): 4-BFB (FID)			136%		75 - 140 %	"				

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-09 (Area1-G1-14)		Soil		Sampled: 05/04/09 11:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	12.9	46.1	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 00:57	
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"				"
BSE0033-10 (Area1-G1-9)		Soil		Sampled: 05/04/09 11:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	15.6	10.4	37.1	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 01:27	J
Surrogate(s): 4-BFB (FID)			143%		75 - 140 %	"				ZX
BSE0033-11 (Area1-H1-14)		Soil		Sampled: 05/04/09 11:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.94	6.92	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 01:58	
Surrogate(s): 4-BFB (FID)			95.4%		75 - 140 %	"				"
BSE0033-12 (Area1-H1-9)		Soil		Sampled: 05/04/09 11:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	28.1	13.3	47.5	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 02:28	J
Surrogate(s): 4-BFB (FID)			121%		75 - 140 %	"				"
BSE0033-13 (Dup-14)		Soil		Sampled: 05/04/09 15:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	89.9	1.76	6.28	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 02:59	Q8
Surrogate(s): 4-BFB (FID)			171%		75 - 140 %	"				ZX
BSE0033-14 (Area1-D9-1.5)		Soil		Sampled: 05/04/09 12:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.13	7.61	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 03:29	
Surrogate(s): 4-BFB (FID)			107%		75 - 140 %	"				"
BSE0033-15 (Area1-D8-2)		Soil		Sampled: 05/04/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.05	7.33	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 03:59	
Surrogate(s): 4-BFB (FID)			100%		75 - 140 %	"				"
BSE0033-16 (Area1-B3-7)		Soil		Sampled: 05/04/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	5.41	3.09	11.1	mg/kg dry	1x	9E04051	05/04/09 17:07	05/05/09 05:30	J
Surrogate(s): 4-BFB (FID)			114%		75 - 140 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-01 (Area1-C1-14)		Soil		Sampled: 05/04/09 09:50						
Lube Oil	NWTPH-Dx	ND	----	27.0	mg/kg dry	1x	9E04057	05/04/09 16:36	05/04/09 22:09	
Kerosene	"	ND	----	10.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	10.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.2%		54 - 148 %	"				"
<i>Octacosane</i>			105%		62 - 142 %	"				"
BSE0033-02 (Area1-C1-9)		Soil		Sampled: 05/04/09 10:00						
Lube Oil	NWTPH-Dx	ND	----	29.2	mg/kg dry	1x	9E04057	05/04/09 16:36	05/04/09 22:33	R4
Kerosene	"	ND	----	11.7	"	"	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	----	11.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.0%		54 - 148 %	"				"
<i>Octacosane</i>			102%		62 - 142 %	"				"
BSE0033-03 (Area1-D1-14)		Soil		Sampled: 05/04/09 10:10						
Lube Oil	NWTPH-Dx	199	----	28.0	mg/kg dry	1x	9E04057	05/04/09 16:36	05/04/09 22:56	Q1
Kerosene	"	38.4	----	11.2	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	132	----	11.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			98.1%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"
BSE0033-04 (Area1-D1-9)		Soil		Sampled: 05/04/09 10:20						
Lube Oil	NWTPH-Dx	ND	----	32.0	mg/kg dry	1x	9E04057	05/04/09 16:36	05/04/09 23:20	
Kerosene	"	ND	----	12.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.4%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"
BSE0033-05 (Area1-E1-14)		Soil		Sampled: 05/04/09 10:30						
Lube Oil	NWTPH-Dx	373	----	76.6	mg/kg dry	1x	9E04057	05/04/09 16:36	05/04/09 23:44	Q1
Kerosene	"	35.3	----	30.6	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	216	----	30.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			96.2%		54 - 148 %	"				"
<i>Octacosane</i>			101%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-06 (Area1-E1-9)		Soil		Sampled: 05/04/09 10:40						
Lube Oil	NWTPH-Dx	135	----	93.0	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 01:42	Q1
Kerosene	"	ND	----	37.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	438	----	37.2	"	"	"	"	"	QP, Q6
<i>Surrogate(s): 2-FBP</i>			102%		54 - 148 %	"			"	
<i>Octacosane</i>			110%		62 - 142 %	"			"	
BSE0033-07 (Area1-F1-14)		Soil		Sampled: 05/04/09 10:50						
Lube Oil	NWTPH-Dx	45.0	----	31.6	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 02:06	Q1
Kerosene	"	ND	----	12.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	25.1	----	12.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			99.7%		54 - 148 %	"			"	
<i>Octacosane</i>			105%		62 - 142 %	"			"	
BSE0033-08 (Area1-F1-9)		Soil		Sampled: 05/04/09 11:00						
Lube Oil	NWTPH-Dx	143	----	88.4	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 02:29	Q1
Kerosene	"	49.6	----	35.4	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	630	----	35.4	"	"	"	"	"	QP, Q6
<i>Surrogate(s): 2-FBP</i>			98.0%		54 - 148 %	"			"	
<i>Octacosane</i>			107%		62 - 142 %	"			"	
BSE0033-09 (Area1-G1-14)		Soil		Sampled: 05/04/09 11:10						
Lube Oil	NWTPH-Dx	599	----	80.3	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 02:53	Q1
Kerosene	"	115	----	32.1	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	534	----	32.1	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			94.8%		54 - 148 %	"			"	
<i>Octacosane</i>			103%		62 - 142 %	"			"	
BSE0033-10 (Area1-G1-9)		Soil		Sampled: 05/04/09 11:20						
Lube Oil	NWTPH-Dx	195	----	94.1	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 03:16	Q1
Kerosene	"	39.0	----	37.7	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	565	----	37.7	"	"	"	"	"	QP, Q6
<i>Surrogate(s): 2-FBP</i>			95.9%		54 - 148 %	"			"	
<i>Octacosane</i>			103%		62 - 142 %	"			"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0033-11 (Area1-H1-14)	Soil		Sampled: 05/04/09 11:30							
Lube Oil	NWTPH-Dx	ND	----	28.2	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 03:40	
Kerosene	"	ND	----	11.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.3	"	"	"	"	"	
Surrogate(s): 2-FBP			94.0%		54 - 148 %	"				"
Octacosane			105%		62 - 142 %	"				"

BSE0033-12 (Area1-H1-9)	Soil		Sampled: 05/04/09 11:40							
Lube Oil	NWTPH-Dx	104	----	101	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 04:04	Q1
Kerosene	"	ND	----	40.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	317	----	40.5	"	"	"	"	"	QP, Q6
Surrogate(s): 2-FBP			93.0%		54 - 148 %	"				"
Octacosane			100%		62 - 142 %	"				"

BSE0033-13 (Dup-14)	Soil		Sampled: 05/04/09 15:00							
Lube Oil	NWTPH-Dx	173	----	27.1	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 04:27	Q1
Kerosene	"	28.8	----	10.8	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	117	----	10.8	"	"	"	"	"	Q6
Surrogate(s): 2-FBP			94.3%		54 - 148 %	"				"
Octacosane			103%		62 - 142 %	"				"

BSE0033-14 (Area1-D9-1.5)	Soil		Sampled: 05/04/09 12:30							
Lube Oil	NWTPH-Dx	ND	----	31.8	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 04:51	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
Surrogate(s): 2-FBP			92.2%		54 - 148 %	"				"
Octacosane			98.8%		62 - 142 %	"				"

BSE0033-15 (Area1-D8-2)	Soil		Sampled: 05/04/09 13:40							
Lube Oil	NWTPH-Dx	ND	----	30.7	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 05:15	R4
Kerosene	"	ND	----	12.3	"	"	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	R4
Surrogate(s): 2-FBP			87.5%		54 - 148 %	"				"
Octacosane			102%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-16 (Area1-B3-7)		Soil			Sampled: 05/04/09 14:20					
Lube Oil	NWTPH-Dx	ND	----	38.9	mg/kg dry	1x	9E04057	05/04/09 16:36	05/05/09 07:13	
Kerosene	"	ND	----	15.5	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	15.5	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>			94.5%		54 - 148 %	"				"
<i>Octacosane</i>			101%		62 - 142 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-01	(Area1-C1-14)	Soil		Sampled: 05/04/09 09:50						
Lead	EPA 6020	1.81	----	0.523	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 08:11	
BSE0033-02	(Area1-C1-9)	Soil		Sampled: 05/04/09 10:00						
Lead	EPA 6020	6.46	----	0.586	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 08:18	
BSE0033-03	(Area1-D1-14)	Soil		Sampled: 05/04/09 10:10						
Lead	EPA 6020	3.46	----	0.566	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 08:43	
BSE0033-04	(Area1-D1-9)	Soil		Sampled: 05/04/09 10:20						
Lead	EPA 6020	4.61	----	0.617	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 08:49	
BSE0033-05	(Area1-E1-14)	Soil		Sampled: 05/04/09 10:30						
Lead	EPA 6020	39.0	----	1.59	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 08:56	
BSE0033-06	(Area1-E1-9)	Soil		Sampled: 05/04/09 10:40						
Lead	EPA 6020	2.70	----	1.87	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 09:02	
BSE0033-07	(Area1-F1-14)	Soil		Sampled: 05/04/09 10:50						
Lead	EPA 6020	11.5	----	0.654	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 09:08	
BSE0033-08	(Area1-F1-9)	Soil		Sampled: 05/04/09 11:00						
Lead	EPA 6020	2.54	----	1.79	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 09:15	
BSE0033-09	(Area1-G1-14)	Soil		Sampled: 05/04/09 11:10						
Lead	EPA 6020	24.3	----	1.61	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 09:21	
BSE0033-10	(Area1-G1-9)	Soil		Sampled: 05/04/09 11:20						
Lead	EPA 6020	5.71	----	1.97	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 09:27	
BSE0033-11	(Area1-H1-14)	Soil		Sampled: 05/04/09 11:30						
Lead	EPA 6020	1.54	----	0.561	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 09:34	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-12	(Area1-H1-9)	Soil		Sampled: 05/04/09 11:40						
Lead	EPA 6020	11.7	----	1.99	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 09:40	
BSE0033-13	(Dup-14)	Soil		Sampled: 05/04/09 15:00						
Lead	EPA 6020	3.15	----	0.540	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 10:05	
BSE0033-14	(Area1-D9-1.5)	Soil		Sampled: 05/04/09 12:30						
Lead	EPA 6020	12.0	----	0.620	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 10:11	
BSE0033-15	(Area1-D8-2)	Soil		Sampled: 05/04/09 13:40						
Lead	EPA 6020	3.04	----	0.585	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 10:18	
BSE0033-16	(Area1-B3-7)	Soil		Sampled: 05/04/09 14:20						
Lead	EPA 6020	274	----	0.823	mg/kg dry	1x	9E05002	05/05/09 05:52	05/05/09 10:24	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-01 (Area1-C1-14)		Soil		Sampled: 05/04/09 09:50						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000571	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 17:56	I2
Naphthalene	"	ND	----	0.00571	"	"	"	"	"	I2
Toluene	"	ND	----	0.000856	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.00285	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.00285	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.00571	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				115%		70 - 140 %	"		"	I2
<i>Toluene-d8</i>				93.4%		70 - 130 %	"		"	I2
<i>4-BFB</i>				99.8%		70 - 130 %	"		"	I2

BSE0033-02 (Area1-C1-9)		Soil		Sampled: 05/04/09 10:00						
Benzene	EPA 8260B	ND	----	0.000963	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 18:22	
Ethylbenzene	"	ND	----	0.00257	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000642	"	"	"	"	"	
Naphthalene	"	ND	----	0.00642	"	"	"	"	"	I2
Toluene	"	ND	----	0.000963	"	"	"	"	"	
o-Xylene	"	ND	----	0.00321	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00321	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00642	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				117%		70 - 140 %	"		"	
<i>Toluene-d8</i>				98.4%		70 - 130 %	"		"	
<i>4-BFB</i>				112%		70 - 130 %	"		"	I2

BSE0033-03 (Area1-D1-14)		Soil		Sampled: 05/04/09 10:10						
Benzene	EPA 8260B	0.108	----	0.000977	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 18:48	
Methyl tert-butyl ether	"	ND	----	0.000651	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				114%		70 - 140 %	"		"	
<i>Toluene-d8</i>				99.0%		70 - 130 %	"		"	
<i>4-BFB</i>				110%		70 - 130 %	"		"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSE0033-04 (Area1-D1-9)		Soil		Sampled: 05/04/09 10:20							
Benzene	EPA 8260B	0.0342	----	0.00122	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 19:14		
Methyl tert-butyl ether	"	ND	----	0.000814	"	"	"	"	"		
Naphthalene	"	0.0904	----	0.00814	"	"	"	"	"		
Total Xylenes	"	1.62	----	0.00814	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>121%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>	
<i>Toluene-d8</i>				<i>103%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
<i>4-BFB</i>				<i>108%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
BSE0033-05 (Area1-E1-14)		Soil		Sampled: 05/04/09 10:30							P13
Benzene	EPA 8260B	0.0139	----	0.00211	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 19:39		
Ethylbenzene	"	0.185	----	0.00563	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.00141	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>106%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>	
<i>Toluene-d8</i>				<i>118%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
<i>4-BFB</i>				<i>128%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
BSE0033-06 (Area1-E1-9)		Soil		Sampled: 05/04/09 10:40							
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00218	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 20:05	I2	
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>111%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>	
<i>Toluene-d8</i>				<i>127%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
<i>4-BFB</i>				<i>137%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
BSE0033-07 (Area1-F1-14)		Soil		Sampled: 05/04/09 10:50							
Benzene	EPA 8260B	ND	----	0.00102	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 20:31		
Ethylbenzene	"	0.0166	----	0.00273	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000682	"	"	"	"	"		
Naphthalene	"	ND	----	0.00682	"	"	"	"	"		
Toluene	"	ND	----	0.00102	"	"	"	"	"		
o-Xylene	"	0.00368	----	0.00341	"	"	"	"	"		
m,p-Xylene	"	0.00411	----	0.00341	"	"	"	"	"		
Total Xylenes	"	0.00779	----	0.00682	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				<i>116%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>	
<i>Toluene-d8</i>				<i>93.0%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
<i>4-BFB</i>				<i>110%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-08 (Area1-F1-9)		Soil		Sampled: 05/04/09 11:00						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00281	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 20:57	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>106%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>128%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>138%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2, ZX</i>
BSE0033-09 (Area1-G1-14)		Soil		Sampled: 05/04/09 11:10						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00349	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 21:22	
Naphthalene	"	ND	----	0.0349	"	"	"	"	"	<i>I2</i>
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>125%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>Toluene-d8</i>			<i>130%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>135%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2, ZX</i>
BSE0033-10 (Area1-G1-9)		Soil		Sampled: 05/04/09 11:20						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00232	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 21:48	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>108%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>127%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2</i>
<i>4-BFB</i>			<i>137%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I2, ZX</i>
BSE0033-11 (Area1-H1-14)		Soil		Sampled: 05/04/09 11:30						
Benzene	EPA 8260B	ND	----	0.000938	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 22:13	
Ethylbenzene	"	ND	----	0.00250	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000625	"	"	"	"	"	
Naphthalene	"	ND	----	0.00625	"	"	"	"	"	
Toluene	"	ND	----	0.000938	"	"	"	"	"	
o-Xylene	"	0.00361	----	0.00313	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00313	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00625	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>117%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>91.0%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>104%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-12 (Area1-H1-9)		Soil		Sampled: 05/04/09 11:40						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00320	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 22:39	
Naphthalene	"	ND	----	0.0320	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.0160	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.0160	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.0320	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				121%	70 - 140 %	"			"	
<i>Toluene-d8</i>				121%	70 - 130 %	"			"	I2
<i>4-BFB</i>				128%	70 - 130 %	"			"	I2
BSE0033-13 (Dup-14)		Soil		Sampled: 05/04/09 15:00						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000578	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 23:05	I
BSE0033-13RE1 (Dup-14)		Soil		Sampled: 05/04/09 15:00						
Benzene	EPA 8260B	0.0802	----	0.000924	mg/kg dry	1x	9E04040	05/04/09 17:30	05/05/09 02:04	
<i>Surrogate(s): 1,2-DCA-d4</i>				102%	70 - 140 %	"			"	
<i>Toluene-d8</i>				108%	70 - 130 %	"			"	
<i>4-BFB</i>				148%	70 - 130 %	"			"	ZX
BSE0033-14 (Area1-D9-1.5)		Soil		Sampled: 05/04/09 12:30						
Benzene	EPA 8260B	ND	----	0.000924	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 23:30	P13
Ethylbenzene	"	ND	----	0.00246	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000616	"	"	"	"	"	
Naphthalene	"	ND	----	0.00616	"	"	"	"	"	
Toluene	"	ND	----	0.000924	"	"	"	"	"	
o-Xylene	"	ND	----	0.00308	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00308	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00616	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				120%	70 - 140 %	"			"	
<i>Toluene-d8</i>				97.6%	70 - 130 %	"			"	
<i>4-BFB</i>				111%	70 - 130 %	"			"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-15 (Area1-D8-2)		Soil		Sampled: 05/04/09 13:40						
Benzene	EPA 8260B	ND	----	0.000927	mg/kg dry	1x	9E04040	05/04/09 17:30	05/04/09 23:56	
Ethylbenzene	"	ND	----	0.00247	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000618	"	"	"	"	"	
Naphthalene	"	ND	----	0.00618	"	"	"	"	"	
Toluene	"	ND	----	0.000927	"	"	"	"	"	
o-Xylene	"	ND	----	0.00309	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00309	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00618	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>115%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>95.7%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
<i>4-BFB</i>			<i>112%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	
BSE0033-16RE1 (Area1-B3-7)		Soil		Sampled: 05/04/09 14:20						
Benzene	EPA 8260B	0.00233	----	0.00129	mg/kg dry	1x	9E04040	05/04/09 17:30	05/05/09 00:47	
Ethylbenzene	"	ND	----	0.00345	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.000862	"	"	"	"	"	
Naphthalene	"	ND	----	0.00862	"	"	"	"	"	I
Toluene	"	ND	----	0.00129	"	"	"	"	"	I
o-Xylene	"	ND	----	0.00431	"	"	"	"	"	I
m,p-Xylene	"	ND	----	0.00431	"	"	"	"	"	I
Total Xylenes	"	ND	----	0.00862	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>118%</i>		<i>70 - 140 %</i>	<i>"</i>			<i>"</i>	
<i>Toluene-d8</i>			<i>110%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I</i>
<i>4-BFB</i>			<i>124%</i>		<i>70 - 130 %</i>	<i>"</i>			<i>"</i>	<i>I</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0033-01 (Area1-C1-14)		Soil		Sampled: 05/04/09 09:50						
Benzene	EPA 8260B	0.0103	0.0103	0.0206	mg/kg dry	1x	9E04041	05/04/09 17:30	05/04/09 18:48	J
Ethylbenzene	"	0.0186	0.0124	0.103	"	"	"	"	"	J
Surrogate(s): 1,2-DCA-d4		93.4%		75 - 125 %		"		"		
Toluene-d8		95.6%		75 - 125 %		"		"		
4-BFB		100%		75 - 125 %		"		"		

BSE0033-03 (Area1-D1-14)		Soil		Sampled: 05/04/09 10:10						
Ethylbenzene	EPA 8260B	0.855	0.0130	0.109	mg/kg dry	1x	9E04041	05/04/09 17:30	05/04/09 19:42	
Naphthalene	"	ND	1.19	2.17	"	"	"	"	"	
Toluene	"	0.139	0.0109	0.109	"	"	"	"	"	
o-Xylene	"	0.410	0.0185	0.109	"	"	"	"	"	
m,p-Xylene	"	1.21	0.0228	0.217	"	"	"	"	"	
Xylenes (total)	"	1.62	0.0337	0.326	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4		91.4%		75 - 125 %		"		"		
Toluene-d8		92.0%		75 - 125 %		"		"		
4-BFB		95.6%		75 - 125 %		"		"		

BSE0033-04 (Area1-D1-9)		Soil		Sampled: 05/04/09 10:20						
Ethylbenzene	EPA 8260B	0.118	0.0166	0.138	mg/kg dry	1x	9E04041	05/04/09 17:30	05/04/09 20:08	J
Toluene	"	0.0595	0.0138	0.138	"	"	"	"	"	J
o-Xylene	"	0.140	0.0235	0.138	"	"	"	"	"	
m,p-Xylene	"	0.407	0.0291	0.277	"	"	"	"	"	
Xylenes (total)	"	0.547	0.0429	0.415	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4		88.8%		75 - 125 %		"		"		
Toluene-d8		96.4%		75 - 125 %		"		"		
4-BFB		99.7%		75 - 125 %		"		"		

BSE0033-05 (Area1-E1-14)		Soil		Sampled: 05/04/09 10:30						
Naphthalene	EPA 8260B	ND	6.41	11.7	mg/kg dry	1x	9E04041	05/04/09 17:30	05/04/09 20:35	
Toluene	"	ND	0.0583	0.583	"	"	"	"	"	
o-Xylene	"	ND	0.0990	0.583	"	"	"	"	"	
m,p-Xylene	"	0.157	0.122	1.17	"	"	"	"	"	J
Xylenes (total)	"	ND	0.181	1.75	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4		90.8%		75 - 125 %		"		"		
Toluene-d8		97.0%		75 - 125 %		"		"		
4-BFB		100%		75 - 125 %		"		"		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-06 (Area1-E1-9)		Soil		Sampled: 05/04/09 10:40						
Benzene	EPA 8260B	3.48	0.0777	0.155	mg/kg dry	1x	9E04041	05/04/09 17:30	05/04/09 21:02	
Ethylbenzene	"	ND	0.0932	0.777	"	"	"	"	"	
Naphthalene	"	ND	8.54	15.5	"	"	"	"	"	
Toluene	"	ND	0.0777	0.777	"	"	"	"	"	
o-Xylene	"	ND	0.132	0.777	"	"	"	"	"	
m,p-Xylene	"	ND	0.163	1.55	"	"	"	"	"	
Xylenes (total)	"	ND	0.241	2.33	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			91.2%		75 - 125 %	"				"
<i>Toluene-d8</i>			96.4%		75 - 125 %	"				"
<i>4-BFB</i>			102%		75 - 125 %	"				"
BSE0033-08 (Area1-F1-9)		Soil		Sampled: 05/04/09 11:00						
Benzene	EPA 8260B	6.27	0.0700	0.140	mg/kg dry	1x	9E04041	05/04/09 17:30	05/04/09 21:56	
Ethylbenzene	"	ND	0.0839	0.700	"	"	"	"	"	
Naphthalene	"	ND	7.69	14.0	"	"	"	"	"	
Toluene	"	ND	0.0700	0.700	"	"	"	"	"	
o-Xylene	"	ND	0.119	0.700	"	"	"	"	"	
m,p-Xylene	"	ND	0.147	1.40	"	"	"	"	"	
Xylenes (total)	"	ND	0.217	2.10	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			94.2%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.7%		75 - 125 %	"				"
<i>4-BFB</i>			100%		75 - 125 %	"				"
BSE0033-09 (Area1-G1-14)		Soil		Sampled: 05/04/09 11:10						
Benzene	EPA 8260B	0.0925	0.0712	0.142	mg/kg dry	1x	9E04041	05/04/09 17:30	05/04/09 22:22	J
Ethylbenzene	"	ND	0.0854	0.712	"	"	"	"	"	
Toluene	"	ND	0.0712	0.712	"	"	"	"	"	
o-Xylene	"	ND	0.121	0.712	"	"	"	"	"	
m,p-Xylene	"	0.178	0.149	1.42	"	"	"	"	"	J
Xylenes (total)	"	ND	0.221	2.13	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			92.9%		75 - 125 %	"				"
<i>Toluene-d8</i>			93.8%		75 - 125 %	"				"
<i>4-BFB</i>			98.6%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSE0033-10 (Area1-G1-9)		Soil			Sampled: 05/04/09 11:20					
Benzene	EPA 8260B	3.02	0.0706	0.141	mg/kg dry	1x	9E04041	05/04/09 17:30	05/04/09 22:49	
Ethylbenzene	"	ND	0.0847	0.706	"	"	"	"	"	
Naphthalene	"	ND	7.76	14.1	"	"	"	"	"	
Toluene	"	ND	0.0706	0.706	"	"	"	"	"	
o-Xylene	"	ND	0.120	0.706	"	"	"	"	"	
m,p-Xylene	"	ND	0.148	1.41	"	"	"	"	"	
Xylenes (total)	"	ND	0.219	2.12	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			93.0%		75 - 125 %	"				"
<i>Toluene-d8</i>			89.4%		75 - 125 %	"				"
<i>4-BFB</i>			99.0%		75 - 125 %	"				"

BSE0033-12 (Area1-H1-9)		Soil			Sampled: 05/04/09 11:40					
Benzene	EPA 8260B	4.74	0.0820	0.164	mg/kg dry	1x	9E04041	05/04/09 17:30	05/04/09 23:43	
Ethylbenzene	"	ND	0.0984	0.820	"	"	"	"	"	
Toluene	"	ND	0.0820	0.820	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			94.6%		75 - 125 %	"				"
<i>Toluene-d8</i>			89.0%		75 - 125 %	"				"
<i>4-BFB</i>			93.6%		75 - 125 %	"				"

BSE0033-13 (Dup-14)		Soil			Sampled: 05/04/09 15:00					
Ethylbenzene	EPA 8260B	0.674	0.0117	0.0972	mg/kg dry	1x	9E04041	05/04/09 17:30	05/05/09 00:10	
Naphthalene	"	ND	1.07	1.94	"	"	"	"	"	
Toluene	"	0.131	0.00972	0.0972	"	"	"	"	"	
o-Xylene	"	0.558	0.0165	0.0972	"	"	"	"	"	
m,p-Xylene	"	1.55	0.0204	0.194	"	"	"	"	"	
Xylenes (total)	"	2.10	0.0301	0.292	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			95.1%		75 - 125 %	"				"
<i>Toluene-d8</i>			89.7%		75 - 125 %	"				"
<i>4-BFB</i>			93.2%		75 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-01 (Area1-C1-14)		Soil								Sampled: 05/04/09 09:50
Dry Weight	BSOPSP003R0 8	91.9	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-02 (Area1-C1-9)		Soil								Sampled: 05/04/09 10:00
Dry Weight	BSOPSP003R0 8	85.3	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-03 (Area1-D1-14)		Soil								Sampled: 05/04/09 10:10
Dry Weight	BSOPSP003R0 8	89.3	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-04 (Area1-D1-9)		Soil								Sampled: 05/04/09 10:20
Dry Weight	BSOPSP003R0 8	77.9	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-05 (Area1-E1-14)		Soil								Sampled: 05/04/09 10:30
Dry Weight	BSOPSP003R0 8	32.1	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-06 (Area1-E1-9)		Soil								Sampled: 05/04/09 10:40
Dry Weight	BSOPSP003R0 8	26.4	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-07 (Area1-F1-14)		Soil								Sampled: 05/04/09 10:50
Dry Weight	BSOPSP003R0 8	78.9	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-08 (Area1-F1-9)		Soil								Sampled: 05/04/09 11:00
Dry Weight	BSOPSP003R0 8	27.9	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-09 (Area1-G1-14)		Soil								Sampled: 05/04/09 11:10
Dry Weight	BSOPSP003R0 8	30.8	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-10 (Area1-G1-9)		Soil								Sampled: 05/04/09 11:20
Dry Weight	BSOPSP003R0 8	26.5	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-11 (Area1-H1-14)		Soil								Sampled: 05/04/09 11:30

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0033-11 (Area1-H1-14)		Soil								Sampled: 05/04/09 11:30
Dry Weight	BSOPSP003R0 8	88.3	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-12 (Area1-H1-9)		Soil								Sampled: 05/04/09 11:40
Dry Weight	BSOPSP003R0 8	24.4	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-13 (Dup-14)		Soil								Sampled: 05/04/09 15:00
Dry Weight	BSOPSP003R0 8	90.8	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-14 (Area1-D9-1.5)		Soil								Sampled: 05/04/09 12:30
Dry Weight	BSOPSP003R0 8	77.5	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-15 (Area1-D8-2)		Soil								Sampled: 05/04/09 13:40
Dry Weight	BSOPSP003R0 8	81.4	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	
BSE0033-16 (Area1-B3-7)		Soil								Sampled: 05/04/09 14:20
Dry Weight	BSOPSP003R0 8	63.3	----	1.00	%	1x	9E04058	05/04/09 16:36	05/05/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E04051 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E04051-BLK1)							Extracted: 05/04/09 14:07							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/04/09 16:45	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/04/09 16:45</i>
LCS (9E04051-BS1)							Extracted: 05/04/09 14:07							
Gasoline Range Hydrocarbons	NWTPH-Gx	45.6	1.40	5.00	mg/kg wet	1x	--	50.0	91.3%	(80-120)	--	--	05/04/09 17:15	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 111%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/04/09 17:15</i>
Duplicate (9E04051-DUP1)							QC Source: BSE0033-01			Extracted: 05/04/09 14:07				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.72	6.14	mg/kg dry	1x	ND	--	--	--	NR (40)		05/04/09 18:53	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/04/09 18:53</i>
Duplicate (9E04051-DUP2)							QC Source: BSE0033-02			Extracted: 05/04/09 14:07				
Gasoline Range Hydrocarbons	NWTPH-Gx	223	2.04	7.28	mg/kg dry	1x	219	--	--	--	1.75% (40)		05/04/09 19:54	ZX
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 307%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/04/09 19:54</i>
Matrix Spike (9E04051-MS1)							QC Source: BSE0033-01			Extracted: 05/04/09 14:07				
Gasoline Range Hydrocarbons	NWTPH-Gx	64.7	1.72	6.14	mg/kg dry	1x	ND	57.1	113%	(75-130)	--	--	05/04/09 21:55	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 123%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/04/09 21:55</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E04057 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E04057-BLK1)

Extracted: 05/04/09 16:36

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/04/09 20:11	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/04/09 20:11</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E04057-BS1)

Extracted: 05/04/09 16:36

Lube Oil	NWTPH-Dx	64.8	---	25.0	mg/kg wet	1x	--	66.7	97.1%	(63-125)	--	--	05/04/09 20:34	
Diesel Range Hydrocarbons	"	73.8	---	10.0	"	"	--	"	111%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/04/09 20:34</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E04057-DUP1)

QC Source: BSE0033-02

Extracted: 05/04/09 16:36

Lube Oil	NWTPH-Dx	ND	---	29.0	mg/kg dry	1x	ND	--	--	--	(50)		05/04/09 20:58	R4
Kerosene	"	ND	---	11.6	"	"	ND	--	--	--	"		"	R4
Diesel Range Hydrocarbons	"	ND	---	11.6	"	"	ND	--	--	--	"		"	R4
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/04/09 20:58</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E04057-DUP2)

QC Source: BSE0033-15

Extracted: 05/04/09 16:36

Lube Oil	NWTPH-Dx	ND	---	30.3	mg/kg dry	1x	ND	--	--	--	(50)		05/04/09 21:22	R4
Kerosene	"	ND	---	12.1	"	"	ND	--	--	--	95.2%	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.1	"	"	ND	--	--	--	58.9%	"	"	R4
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/04/09 21:22</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E04057-MS1)

QC Source: BSE0033-02

Extracted: 05/04/09 16:36

Lube Oil	NWTPH-Dx	76.3	---	29.3	mg/kg dry	1x	ND	78.1	97.7%	(26-150)	--	--	05/04/09 21:45	
Diesel Range Hydrocarbons	"	80.7	---	11.7	"	"	ND	"	103%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/04/09 21:45</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E05002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E05002-BLK1)								Extracted: 05/05/09 05:52						
Lead	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	05/05/09 07:40	
LCS (9E05002-BS1)								Extracted: 05/05/09 05:52						
Lead	EPA 6020	43.0	---	0.521	mg/kg wet	1x	--	41.7	103%	(80-120)	--	--	05/05/09 07:46	
Duplicate (9E05002-DUP1)				QC Source: BSE0033-01				Extracted: 05/05/09 05:52						
Lead	EPA 6020	1.60	---	0.533	mg/kg dry	1x	1.81	--	--	--	12.3% (20)	--	05/05/09 08:05	
Matrix Spike (9E05002-MS1)				QC Source: BSE0033-01				Extracted: 05/05/09 05:52						
Lead	EPA 6020	46.2	---	0.566	mg/kg dry	1x	1.81	45.3	97.9%	(75-125)	--	--	05/05/09 07:59	
Post Spike (9E05002-PS1)				QC Source: BSE0033-01				Extracted: 05/05/09 05:52						
Lead	EPA 6020	0.112	---		ug/ml	1x	0.00346	0.100	108%	(80-120)	--	--	05/05/09 07:53	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E04040 **Soil Preparation Method: EPA 5035**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E04040-BLK1)													Extracted: 05/04/09 15:30	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/04/09 17:30	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>124%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/04/09 17:30</i>	
<i>Toluene-d8</i>		<i>89.7%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E04040-BS1)													Extracted: 05/04/09 15:30	
Benzene	EPA 8260B	0.0418	---	0.00150	mg/kg wet	1x	--	0.0500	83.6%	(70-125)	--	--	05/04/09 16:38	
Ethylbenzene	"	0.0422	---	0.00400	"	"	--	"	84.5%	"	--	--	"	
Methyl tert-butyl ether	"	0.0436	---	0.00100	"	"	--	"	87.3%	(70-130)	--	--	"	
Naphthalene	"	0.0418	---	0.0100	"	"	--	"	83.6%	"	--	--	"	
Toluene	"	0.0403	---	0.00150	"	"	--	"	80.6%	(70-125)	--	--	"	
Total Xylenes	"	0.125	---	0.0100	"	"	--	0.150	83.6%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/04/09 16:38</i>	
<i>Toluene-d8</i>		<i>94.3%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>107%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E04040-BSD1)													Extracted: 05/04/09 15:30	
Benzene	EPA 8260B	0.0427	---	0.00150	mg/kg wet	1x	--	0.0500	85.3%	(70-125)	2.01% (30)		05/04/09 17:04	
Ethylbenzene	"	0.0435	---	0.00400	"	"	--	"	87.0%	"	2.89%	"	"	
Methyl tert-butyl ether	"	0.0470	---	0.00100	"	"	--	"	94.1%	(70-130)	7.50%	"	"	
Naphthalene	"	0.0435	---	0.0100	"	"	--	"	86.9%	"	3.89%	"	"	
Toluene	"	0.0424	---	0.00150	"	"	--	"	84.7%	(70-125)	4.93%	"	"	
Total Xylenes	"	0.132	---	0.0100	"	"	--	0.150	88.3%	(70-130)	5.46%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>99.7%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/04/09 17:04</i>	
<i>Toluene-d8</i>		<i>94.6%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/05/09 17:43
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E04041 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E04041-BLK1)													Extracted: 05/04/09 15:30			
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	05/04/09 18:21			
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"			
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 96.1%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>05/04/09 18:21</i>
<i>Toluene-d8</i>													<i>100%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>101%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS (9E04041-BS1)													Extracted: 05/04/09 15:30			
Benzene	EPA 8260B	3.69	0.0100	0.0200	mg/kg wet	1x	--	4.00	92.4%	(75-125)	--	--	05/04/09 16:45			
Ethylbenzene	"	3.60	0.0120	0.100	"	"	--	"	90.1%	"	--	--	"			
Methyl tert-butyl ether	"	4.02	0.0100	0.0500	"	"	--	"	100%	"	--	--	"			
Naphthalene	"	3.59	1.10	2.00	"	"	--	"	89.7%	(60-140)	--	--	"			
Toluene	"	3.55	0.0100	0.100	"	"	--	"	88.7%	(75-125)	--	--	"			
o-Xylene	"	3.45	0.0170	0.100	"	"	--	"	86.2%	"	--	--	"			
m,p-Xylene	"	7.03	0.0210	0.200	"	"	--	8.00	87.9%	"	--	--	"			
Xylenes (total)	"	10.5	0.0310	0.300	"	"	--	12.0	87.3%	"	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 96.2%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>05/04/09 16:45</i>
<i>Toluene-d8</i>													<i>93.2%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>96.6%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

LCS Dup (9E04041-BSD1)													Extracted: 05/04/09 15:30			
Benzene	EPA 8260B	3.59	0.0100	0.0200	mg/kg wet	1x	--	4.00	89.8%	(75-125)	2.83% (20)		05/04/09 17:12			
Ethylbenzene	"	3.57	0.0120	0.100	"	"	--	"	89.3%	"	0.892%	"	"			
Methyl tert-butyl ether	"	3.92	0.0100	0.0500	"	"	--	"	98.0%	"	2.42%	"	"			
Naphthalene	"	3.67	1.10	2.00	"	"	--	"	91.7%	(60-140)	2.23%	"	"			
Toluene	"	3.50	0.0100	0.100	"	"	--	"	87.5%	(75-125)	1.36%	"	"			
o-Xylene	"	3.46	0.0170	0.100	"	"	--	"	86.5%	"	0.261%	"	"			
m,p-Xylene	"	6.97	0.0210	0.200	"	"	--	8.00	87.1%	"	0.886%	"	"			
Xylenes (total)	"	10.4	0.0310	0.300	"	"	--	12.0	86.9%	"	0.507%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 91.2%</i>	<i>Limits: 75-125%</i>	<i>"</i>	<i>05/04/09 17:12</i>
<i>Toluene-d8</i>													<i>91.2%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.6%</i>	<i>75-125%</i>	<i>"</i>	<i>"</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/05/09 17:43
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E04058 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E04058-BLK1)										Extracted: 05/04/09 16:36				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/05/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/05/09 17:43

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the kerosene range are primarily due to overlap from a heavy oil range product.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- Q8 - Detected hydrocarbons in the gasoline range appear to be due to overlap of diesel range hydrocarbons.
- QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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THE LEADER IN ENVIRONMENTAL TESTING

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CHAIN OF CUSTODY REPORT

Work Order #: **30FE033**

CLIENT: CONOCO PHILLIPS		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: NUMCP Staff		ADDRESS: (see below)		in Business Days *	
PHONE: 509-924-9200		FAX: 509-924-9290		Organic & Inorganic Analyses	
PROJECT NAME: NUMCP Phase II		P.O. NUMBER: 11922 E. First Ave		Petroleum Hydrocarbon Analyses	
PROJECT NUMBER: 11922 E. First Ave		PRESERVATIVE: None		STD. <1	
SAMPLED BY: NUMCP		REQUESTED ANALYSES: None		STD. <1	
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		OTHER	
1 Area 1-C1-14		5/4/09 / 0950		Specify: 21p-hr	
2 C1-9		" / 1000		* Turnaround Requests less than standard may incur Rush Charges.	
3 D1-14		" / 1010		MATRIX (W, S, O)	
4 D1-9		" / 1020		# OF CONT.	
5 E1-14		" / 1030		LOCATION/ COMMENTS	
6 E1-9		" / 1040		TA	
7 F1-14		" / 1050		WO ID	
8 F1-9		" / 1100		Sediment	
9 G1-14		" / 1110		Sediment	
10 G1-9		" / 1120		Sediment	
RECEIVED BY: Tom Blankinship		DATE: 5-4-09		DATE: 5/4/09	
PRINT NAME: Matthews		TIME: 1450		TIME: 1500	
FIRM: was		FIRM: TA-S		FIRM: TA-S	
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave. Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BOE 083**

CLIENT: CP		INVOICE TO:		TURNAROUND REQUEST			
REPORT TO: ADDRESS:		PRESERVATIVE		in Business Days *			
PHONE:		REQUESTED ANALYSES		Organic & Inorganic Analyses			
PROJECT NAME: Winep Phase II				Petroleum Hydrocarbon Analyses			
PROJECT NUMBER:				STD.			
SAMPLED BY: WRM				OTHER Specify: Z4-hr			
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		* Turnaround Requests less than standard may incur Rush Charges.			
1	AREA-11-14	5/4/09	1130	S	4	Sand w/ some silt	11
2	" 11-9	"	1420	S	5	Specs Siltiest	12
3	DUP-14	"	1700	S	4	"	13
4	AREA-D9-1.5	"	1230	S	4	Fine sand w/ silt	14
5	" -D8-2	"	1340	S	4	Specs	15
6	" -B3-7	"	1420	S	4	Sand w/ some silt Silty Sand w/ silt 2.1.1.1.1	16
7							
8							
9							
10							

RECEIVED BY: Matthew W. Ribbin	DATE: 5-4-09	FIRM: WAS	RECEIVED BY: Matthew W. Ribbin	DATE: 5/4/09	FIRM: TA-S
PRINT NAME: MATTHEW W. RIBBIN	TIME: 1450		PRINT NAME: Matthew W. Ribbin	TIME: 1500	
RELEASED BY:	DATE:	FIRM:	RELEASED BY:	DATE:	FIRM:
PRINT NAME:	TIME:		PRINT NAME:	TIME:	
ADDITIONAL REMARKS:			ADDITIONAL REMARKS:		

PAGE 2 of 2

015:45

TAT: _____

Paperwork to PM – Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____

(applies to temp at receipt)

Date: 5/4 Date: 5/4 Date: 5/4 Date: 5/4 | *For 807-1000* Work Order No. BOE 0033

Time: 15:45 Time: 10:03 Time: 16:30 Time: 16:35 Client: _____

Initials: TA Initials: CL Initials: CL/AB Initials: CL Project: _____

** Vials not reviewed*

Container Type: Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam _____
 Box _____ On Bottles _____ Date _____ Foam Packs _____
 None/Other _____ None _____ None/Other _____

Refrigerant: Gel Ice Pack _____ Loose Ice _____ None/Other _____
 Soil Stir Bars/Encores: Placed in freezer #46: Y or N or NA _____ Initial/date/time _____
 Received Via: Bill#: Fed Ex _____ Client _____
 UPS _____ TA Courier _____
 DHL _____ Mid Valley _____
 Senvoy _____ TDP _____
 GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? N.O °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="radio"/> Y or N _____	Metals Preserved? Y or N or <u>NA</u> _____	
Provided by TA? <input checked="" type="radio"/> Y or N _____	Client QAPP Preserved? Y or N or <u>NA</u> _____	
Correct Type? <input checked="" type="radio"/> Y or N _____	Adequate Volume? <input checked="" type="radio"/> Y or N _____	
#Containers match COC? <input checked="" type="radio"/> Y or N _____	(for tests requested) Water VOAs: Headspace? Y or N or <u>NA</u> _____	
IDs/time/date match COC? <input checked="" type="radio"/> Y or N _____	Comments: _____	
Hold Times in hold? <input checked="" type="radio"/> Y or N _____		

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

May 06, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/05/09 15:15.
The following list is a summary of the Work Orders contained in this report, generated on 05/06/09
16:24.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0050	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/06/09 16:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-K4-14	BSE0050-01	Soil	05/05/09 14:00	05/05/09 15:15
AREA1-K5-14	BSE0050-02	Soil	05/05/09 14:10	05/05/09 15:15

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/06/09 16:24

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0050-01 (AREA1-K4-14)		Soil		Sampled: 05/05/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	11.1	1.51	5.41	mg/kg dry	1x	9E05020	05/05/09 14:45	05/05/09 19:09	
<i>Surrogate(s): 4-BFB (FID)</i>			127%		75 - 140 %	"				"
BSE0050-02 (AREA1-K5-14)		Soil		Sampled: 05/05/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	8.08	2.08	7.43	mg/kg dry	1x	9E05020	05/05/09 14:45	05/05/09 19:40	
<i>Surrogate(s): 4-BFB (FID)</i>			110%		75 - 140 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/06/09 16:24
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0050-01 (AREA1-K4-14)		Soil			Sampled: 05/05/09 14:00					
Lube Oil	NWTPH-Dx	ND	----	29.8	mg/kg dry	1x	9E05025	05/05/09 14:14	05/05/09 20:48	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			87.0%		54 - 148 %	"				"
<i>Octacosane</i>			97.7%		62 - 142 %	"				"
BSE0050-02 (AREA1-K5-14)		Soil			Sampled: 05/05/09 14:10					
Lube Oil	NWTPH-Dx	317	----	32.5	mg/kg dry	1x	9E05025	05/05/09 14:14	05/05/09 21:11	Q1
Kerosene	"	29.5	----	13.0	"	"	"	"	"	A-01
Diesel Range Hydrocarbons	"	155	----	13.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			90.2%		54 - 148 %	"				"
<i>Octacosane</i>			99.4%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/06/09 16:24

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0050-01 (AREA1-K4-14)										
										Soil
										Sampled: 05/05/09 14:00
Lead	EPA 6020	7.12	----	0.442	mg/kg dry	1x	9E06002	05/06/09 06:17	05/06/09 08:59	
BSE0050-02 (AREA1-K5-14)										
										Soil
										Sampled: 05/05/09 14:10
Lead	EPA 6020	11.6	----	0.373	mg/kg dry	1x	9E06002	05/06/09 06:17	05/06/09 09:06	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/06/09 16:24
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSE0050-01 (AREA1-K4-14)	Soil		Sampled: 05/05/09 14:00								P13
Benzene	EPA 8260B	0.0941	----	0.000871	mg/kg dry	1x	9E05031	05/05/09 16:26	05/05/09 18:42		
Ethylbenzene	"	0.0774	----	0.00232	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000581	"	"	"	"	"		
Naphthalene	"	ND	----	0.00581	"	"	"	"	"		
Toluene	"	0.109	----	0.000871	"	"	"	"	"		
o-Xylene	"	0.0130	----	0.00290	"	"	"	"	"		
m,p-Xylene	"	0.0711	----	0.00290	"	"	"	"	"		
Total Xylenes	"	0.0841	----	0.00581	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			117%		70 - 140 %	"				"	
<i>Toluene-d8</i>			95.8%		70 - 130 %	"				"	
<i>4-BFB</i>			105%		70 - 130 %	"				"	

BSE0050-02RE1 (AREA1-K5-14)	Soil		Sampled: 05/05/09 14:10							
Benzene	EPA 8260B	ND	----	0.00124	mg/kg dry	1x	9E05031	05/05/09 16:26	05/05/09 19:33	
Ethylbenzene	"	ND	----	0.00330	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000825	"	"	"	"	"	
Naphthalene	"	ND	----	0.00825	"	"	"	"	"	
Toluene	"	0.00131	----	0.00124	"	"	"	"	"	
o-Xylene	"	ND	----	0.00413	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00413	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00825	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			125%		70 - 140 %	"				"
<i>Toluene-d8</i>			93.6%		70 - 130 %	"				"
<i>4-BFB</i>			107%		70 - 130 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/06/09 16:24

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0050-01 (AREA1-K4-14)		Soil		Sampled: 05/05/09 14:00						
Dry Weight	BSOPSP003R0 8	83.1	----	1.00	%	1x	9E05028	05/05/09 17:16	05/06/09 00:00	
BSE0050-02 (AREA1-K5-14)		Soil		Sampled: 05/05/09 14:10						
Dry Weight	BSOPSP003R0 8	76.2	----	1.00	%	1x	9E05028	05/05/09 17:16	05/06/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/06/09 16:24
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E05020 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E05020-BLK1)													Extracted: 05/05/09 11:45			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/05/09 13:07			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 77.4%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>05/05/09 13:07</i>			
LCS (9E05020-BS1)													Extracted: 05/05/09 11:45			
Gasoline Range Hydrocarbons	NWTPH-Gx	47.0	1.40	5.00	mg/kg wet	1x	--	50.0	93.9%	(80-120)	--	--	05/05/09 13:37			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>05/05/09 13:37</i>			
Duplicate (9E05020-DUP1)													QC Source: BSE0033-06RE1		Extracted: 05/05/09 11:45	
Gasoline Range Hydrocarbons	NWTPH-Gx	3.12	0.814	2.91	mg/kg wet	1x	3.22	--	--	--	3.21% (40)		05/05/09 15:07			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.7%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>05/05/09 15:07</i>	ZX		
Duplicate (9E05020-DUP2)													QC Source: BSE0049-01		Extracted: 05/05/09 11:45	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.38	4.91	mg/kg wet	1x	ND	--	--	--	NR (40)		05/05/09 20:40			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 81.9%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>05/05/09 20:40</i>			
Matrix Spike (9E05020-MS1)													QC Source: BSE0033-06RE1		Extracted: 05/05/09 11:45	
Gasoline Range Hydrocarbons	NWTPH-Gx	31.6	0.814	2.91	mg/kg wet	1x	3.22	29.1	97.8%	(75-130)	--	--	05/05/09 17:38	M1		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 115%</i>	<i>Limits: 75-140%</i>		<i>"</i>								<i>05/05/09 17:38</i>	ZX		

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Curtis D. Armstrong For Kate Haney, Project Manager

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E05025 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E05025-BLK1)

Extracted: 05/05/09 14:14

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/05/09 19:14	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/05/09 19:14</i>	
<i>Octacosane</i>			<i>102%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E05025-BS1)

Extracted: 05/05/09 14:14

Lube Oil	NWTPH-Dx	62.8	---	25.0	mg/kg wet	1x	--	66.7	94.3%	(63-125)	--	--	05/05/09 19:37	
Diesel Range Hydrocarbons	"	68.0	---	10.0	"	"	--	"	102%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/05/09 19:37</i>	
<i>Octacosane</i>			<i>103%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E05025-DUP1)

QC Source: BSE0050-01

Extracted: 05/05/09 14:14

Lube Oil	NWTPH-Dx	ND	---	30.2	mg/kg dry	1x	ND	--	--	--	5.77% (50)	--	05/05/09 20:01	
Kerosene	"	ND	---	12.1	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.1	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/05/09 20:01</i>	
<i>Octacosane</i>			<i>95.9%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E05025-MS1)

QC Source: BSE0050-01

Extracted: 05/05/09 14:14

Lube Oil	NWTPH-Dx	69.1	---	29.7	mg/kg dry	1x	6.17	79.1	79.5%	(26-150)	--	--	05/05/09 20:24	
Diesel Range Hydrocarbons	"	76.5	---	11.9	"	"	ND	"	96.7%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>84.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/05/09 20:24</i>	
<i>Octacosane</i>			<i>94.7%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/06/09 16:24
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E06002-BLK1)								Extracted: 05/06/09 06:17						
Lead	EPA 6020	ND	---	0.500	mg/kg wet	1x	--	--	--	--	--	--	05/06/09 08:28	
LCS (9E06002-BS1)								Extracted: 05/06/09 06:17						
Lead	EPA 6020	40.9	---	0.521	mg/kg wet	1x	--	41.7	98.2%	(80-120)	--	--	05/06/09 08:34	
Duplicate (9E06002-DUP1)				QC Source: BSE0050-01				Extracted: 05/06/09 06:17						
Lead	EPA 6020	6.22	---	0.371	mg/kg dry	1x	7.12	--	--	--	13.5% (20)	--	05/06/09 08:53	
Matrix Spike (9E06002-MS1)				QC Source: BSE0050-01				Extracted: 05/06/09 06:17						
Lead	EPA 6020	39.2	---	0.415	mg/kg dry	1x	7.12	33.2	96.7%	(75-125)	--	--	05/06/09 08:47	
Post Spike (9E06002-PS1)				QC Source: BSE0050-01				Extracted: 05/06/09 06:17						
Lead	EPA 6020	0.118	---		ug/ml	1x	0.0208	0.100	96.8%	(80-120)	--	--	05/06/09 08:41	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/06/09 16:24
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E05031 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E05031-BLK1)													Extracted: 05/05/09 15:26	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/05/09 18:16	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>121%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/05/09 18:16</i>	
<i>Toluene-d8</i>			<i>92.4%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E05031-BS1)													Extracted: 05/05/09 15:26	
Benzene	EPA 8260B	0.0462	---	0.00150	mg/kg wet	1x	--	0.0500	92.3%	(70-125)	--	--	05/05/09 17:25	
Ethylbenzene	"	0.0452	---	0.00400	"	"	--	"	90.5%	"	--	--	"	
Methyl tert-butyl ether	"	0.0580	---	0.00100	"	"	--	"	116%	(70-130)	--	--	"	
Naphthalene	"	0.0562	---	0.0100	"	"	--	"	112%	"	--	--	"	
Toluene	"	0.0432	---	0.00150	"	"	--	"	86.4%	(70-125)	--	--	"	
Total Xylenes	"	0.139	---	0.0100	"	"	--	0.150	92.5%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>112%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/05/09 17:25</i>	
<i>Toluene-d8</i>			<i>96.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.5%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E05031-BSD1)													Extracted: 05/05/09 15:26	
Benzene	EPA 8260B	0.0442	---	0.00150	mg/kg wet	1x	--	0.0500	88.4%	(70-125)	4.38%	(30)	05/05/09 17:51	
Ethylbenzene	"	0.0436	---	0.00400	"	"	--	"	87.3%	"	3.58%	"	"	
Methyl tert-butyl ether	"	0.0472	---	0.00100	"	"	--	"	94.5%	(70-130)	20.4%	"	"	
Naphthalene	"	0.0428	---	0.0100	"	"	--	"	85.5%	"	27.1%	"	"	
Toluene	"	0.0410	---	0.00150	"	"	--	"	82.0%	(70-125)	5.22%	"	"	
Total Xylenes	"	0.133	---	0.0100	"	"	--	0.150	88.6%	(70-130)	4.33%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/05/09 17:51</i>	
<i>Toluene-d8</i>			<i>91.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/06/09 16:24
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E05028 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E05028-BLK1)										Extracted: 05/05/09 17:16				
Dry Weight	BSOPSP00 3R08	99.8	---	1.00	%	1x	--	--	--	--	--	--	05/06/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/06/09 16:24

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/06/09 16:24

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the Kerosene range are primarily due to overlap from a heavy oil range product
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Curtis D. Armstrong For Kate Haney, Project Manager

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 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSF0050**

CLIENT: CONDOL PHILLIPS		INVOICE TO: CP		TURNAROUND REQUEST							
REPORT TO: WMLP Staff		P.O. NUMBER:		in Business Days *							
PHONE:		PRESERVATIVE		Organic & Inorganic Analyses							
PROJECT NAME: WMLP Phase II		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses							
PROJECT NUMBER:				STD.							
SAMPLED BY: MATTHEW MCKEON				OTHER Specify: 24-hr							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MTM	GX	MTM	DX (with 15% Cu)	8260B (with 15% Cu)	LEAD	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 AREA- K4-14	5-5-09 / 1400	X	X	X	X	X	X	S	4	Sandy soil	-01
2 " - K5-14	" / 1410	X	X	X	X	X	X	S	4	Sandy soil 15ppm PBO	-02
3											
4											
5											
6											
7											
8											
9											
10											

* Turnaround Requests less than standard may incur Rush Charges.

RECEIVED BY: **[Signature]**
 PRINT NAME: **Francisco Lungs, Jr.**
 DATE: **5-5-09**
 TIME: **1430**

RECEIVED BY: **[Signature]**
 PRINT NAME: **Francisco Lungs, Jr.**
 DATE: **5-5-09**
 TIME: **1430**

RECEIVED BY: **[Signature]**
 PRINT NAME: **MATTHEW MCKEON**
 DATE: **5-5-09**
 TIME: **1430**

RECEIVED BY: **[Signature]**
 PRINT NAME: **MATTHEW MCKEON**
 DATE: **5-5-09**
 TIME: **1430**

FRM: **WRS**

FRM: **WRS**

FRM: **WRS**

FRM: **WRS**

DATE: **5/5/09**
 TIME: **1430**

DATE: **5/5/09**
 TIME: **1430**

DATE: **5/5/09**
 TIME: **1430**

DATE: **5/5/09**
 TIME: **1430**

TEMP: **2.1c**

TEMP: **2.1c**

TEMP: **2.1c**

TEMP: **2.1c**

PAGE **1** OF **1**

PAGE **1** OF **1**

PAGE **1** OF **1**

PAGE **1** OF **1**

ADDITIONAL REMARKS: **TCLP Samples w/ total lead 2 500mg/kg**

ADDITIONAL REMARKS: **TCLP Samples w/ total lead 2 500mg/kg**

ADDITIONAL REMARKS: **TCLP Samples w/ total lead 2 500mg/kg**

ADDITIONAL REMARKS: **TCLP Samples w/ total lead 2 500mg/kg**

TAT: _____

Paperwork to PM – Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
(applies to temp at receipt)

Date: 5/5/09 Date: 05-05 Date: 05-05 Date: _____ ^{lock away} Work Order No. BSE0050

Time: 1515 Time: 1601 Time: 1545 Time: _____ Client: _____

Initials: FL Initials: CW Initials: FL/CW Initials: FL Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
_____ Box _____ On Bottles _____ Date _____ Foam Packs
_____ None/Other _____ None ^{FL} None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
_____ Loose Ice _____ Y or N or NA UPS TA Courier
_____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley
_____ Senvoy _____ TDP
_____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)
Temperature Blank? 2.1 or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
(initial/date/time): _____
Comments: _____

Sample Containers: _____ ID _____ ID _____
Intact? Y or N _____ Metals Preserved? Y or N or NA SOIL
Provided by TA? Y or N _____ Client QAPP Preserved? Y or N or NA
Correct Type? Y or N _____ Adequate Volume? Y or N _____
(for tests requested)
#Containers match COC? Y or N _____ Water VOAs: Headspace? Y or N or NA
IDs/time/date match COC? Y or N _____ Comments: _____
Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

May 11, 2009

Melanie Young
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: COP Westlake & Mercer Cleanup Project

Enclosed are the results of analyses for samples received by the laboratory on 05/05/09 15:15.
The following list is a summary of the Work Orders contained in this report, generated on 05/11/09
15:27.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0056	COP Westlake & Mercer Clea	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

05/11/09 15:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I-050509	BSE0056-01	Water	05/05/09 10:30	05/05/09 15:15
M-050509	BSE0056-02	Water	05/05/09 10:40	05/05/09 15:15
E01-050509	BSE0056-03	Water	05/05/09 10:50	05/05/09 15:15
E02-050509	BSE0056-04	Water	05/05/09 11:00	05/05/09 15:15
E03-050509	BSE0056-05	Water	05/05/09 11:15	05/05/09 15:15

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 05/11/09 15:27
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0056-01 (I-050509)		Water			Sampled: 05/05/09 10:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	209	----	50.0	ug/l	1x	9E06008	05/06/09 08:35	05/06/09 13:28	
<i>Surrogate(s): 4-BFB (FID)</i>			85.8%		70 - 145 %	"				"
BSE0056-02 (M-050509)		Water			Sampled: 05/05/09 10:40					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9E06008	05/06/09 08:35	05/06/09 14:32	
<i>Surrogate(s): 4-BFB (FID)</i>			86.3%		70 - 145 %	"				"
BSE0056-03 (E01-050509)		Water			Sampled: 05/05/09 10:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9E06008	05/06/09 08:35	05/06/09 15:05	
<i>Surrogate(s): 4-BFB (FID)</i>			85.4%		70 - 145 %	"				"
BSE0056-04 (E02-050509)		Water			Sampled: 05/05/09 11:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9E06008	05/06/09 08:35	05/06/09 15:37	
<i>Surrogate(s): 4-BFB (FID)</i>			85.7%		70 - 145 %	"				"
BSE0056-05 (E03-050509)		Water			Sampled: 05/05/09 11:15					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9E06008	05/06/09 08:35	05/06/09 16:10	
<i>Surrogate(s): 4-BFB (FID)</i>			86.5%		70 - 145 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 05/11/09 15:27
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0056-01 (I-050509)		Water			Sampled: 05/05/09 10:30					
Diesel Range Hydrocarbons	NWTPH-Dx	1.39	----	0.236	mg/l	1x	9E07009	05/07/09 09:29	05/08/09 16:07	Q12
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				102%		53 - 120 %	"			"
<i>Octacosane</i>				90.4%		68 - 123 %	"			"
BSE0056-02 (M-050509)		Water			Sampled: 05/05/09 10:40					
Diesel Range Hydrocarbons	NWTPH-Dx	0.415	----	0.236	mg/l	1x	9E07009	05/07/09 09:29	05/08/09 17:59	Q12
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				97.0%		53 - 120 %	"			"
<i>Octacosane</i>				108%		68 - 123 %	"			"
BSE0056-03 (E01-050509)		Water			Sampled: 05/05/09 10:50					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9E07009	05/07/09 09:29	05/08/09 16:51	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				94.4%		53 - 120 %	"			"
<i>Octacosane</i>				97.5%		68 - 123 %	"			"
BSE0056-04 (E02-050509)		Water			Sampled: 05/05/09 11:00					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9E07009	05/07/09 09:29	05/08/09 17:14	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				85.2%		53 - 120 %	"			"
<i>Octacosane</i>				85.6%		68 - 123 %	"			"
BSE0056-05 (E03-050509)		Water			Sampled: 05/05/09 11:15					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9E07009	05/07/09 09:29	05/08/09 17:36	
Lube Oil Range Hydrocarbons	"	ND	----	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>				92.0%		53 - 120 %	"			"
<i>Octacosane</i>				92.6%		68 - 123 %	"			"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 05/11/09 15:27
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0056-01 (I-050509)		Water			Sampled: 05/05/09 10:30					
Benzene	EPA 8260B	0.800	----	0.500	ug/l	1x	9E06014	05/06/09 11:52	05/06/09 17:08	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
o-Xylene	"	1.17	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>123%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>ZX</i>
<i>Toluene-d8</i>			<i>110%</i>		<i>80 - 120 %</i>	<i>"</i>				
<i>4-BFB</i>			<i>101%</i>		<i>80 - 120 %</i>	<i>"</i>				
BSE0056-02 (M-050509)		Water			Sampled: 05/05/09 10:40					
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9E06014	05/06/09 11:52	05/06/09 17:37	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>122%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>Z2</i>
<i>Toluene-d8</i>			<i>111%</i>		<i>80 - 120 %</i>	<i>"</i>				
<i>4-BFB</i>			<i>101%</i>		<i>80 - 120 %</i>	<i>"</i>				
BSE0056-03 (E01-050509)		Water			Sampled: 05/05/09 10:50					
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9E06014	05/06/09 11:52	05/06/09 18:05	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
o-Xylene	"	ND	----	1.00	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.00	"	"	"	"	"	
Xylenes (total)	"	ND	----	3.00	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>124%</i>		<i>80 - 120 %</i>	<i>"</i>				<i>Z2</i>
<i>Toluene-d8</i>			<i>110%</i>		<i>80 - 120 %</i>	<i>"</i>				
<i>4-BFB</i>			<i>101%</i>		<i>80 - 120 %</i>	<i>"</i>				

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 05/11/09 15:27
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06008 **Water Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E06008-BLK1)

Extracted: 05/06/09 08:35

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	05/06/09 12:23	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.9%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>05/06/09 12:23</i>	

LCS (9E06008-BS1)

Extracted: 05/06/09 08:35

Gasoline Range Hydrocarbons	NWTPH-Gx	1000	---	50.0	ug/l	1x	--	1000	100%	(80-120)	--	--	05/06/09 12:55	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.7%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>05/06/09 12:55</i>	

Duplicate (9E06008-DUP1)

QC Source: BSE0056-01

Extracted: 05/06/09 08:35

Gasoline Range Hydrocarbons	NWTPH-Gx	198	---	50.0	ug/l	1x	209	--	--	--	5.54% (25)	--	05/06/09 14:00	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.8%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>05/06/09 14:00</i>	

Matrix Spike (9E06008-MS1)

QC Source: BSE0056-01

Extracted: 05/06/09 08:35

Gasoline Range Hydrocarbons	NWTPH-Gx	1240	---	50.0	ug/l	1x	209	1000	103%	(70-135)	--	--	05/06/09 16:42	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.9%</i>		<i>Limits: 70-145%</i>		<i>"</i>							<i>05/06/09 16:42</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 05/11/09 15:27
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07009 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9E07009-BLK1)										Extracted: 05/07/09 09:29					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	05/08/09 15:00		
Lube Oil Range Hydrocarbons	"	ND	---	0.500	"	"	--	--	--	--	--	--	"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 90.3%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>05/08/09 15:00</i>			
<i>Octacosane</i>		<i>95.6%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			
LCS (9E07009-BS1)										Extracted: 05/07/09 09:29					MNR1
Diesel Range Hydrocarbons	NWTPH-Dx	2.03	---	0.250	mg/l	1x	--	2.00	101%	(65-120)	--	--	05/08/09 15:22		
Lube Oil Range Hydrocarbons	"	1.81	---	0.500	"	"	--	"	90.6%	(70-120)	--	--	"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 86.4%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>05/08/09 15:22</i>			
<i>Octacosane</i>		<i>91.5%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			
LCS Dup (9E07009-BSD1)										Extracted: 05/07/09 09:29					
Diesel Range Hydrocarbons	NWTPH-Dx	2.00	---	0.250	mg/l	1x	--	2.00	100%	(65-120)	1.24% (25)		05/08/09 15:45		
Lube Oil Range Hydrocarbons	"	1.79	---	0.500	"	"	--	"	89.7%	(70-120)	0.936% (40)		"		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 86.4%</i>		<i>Limits: 53-120%</i>		<i>"</i>						<i>05/08/09 15:45</i>			
<i>Octacosane</i>		<i>87.8%</i>		<i>68-123%</i>		<i>"</i>						<i>"</i>			

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 05/11/09 15:27
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06014 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E06014-BLK1)

Extracted: 05/06/09 11:52

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	05/06/09 14:45	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>119%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>05/06/09 14:45</i>	
<i>Toluene-d8</i>		<i>108%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	

LCS (9E06014-BS1)

Extracted: 05/06/09 11:52

Benzene	EPA 8260B	38.5	---	0.500	ug/l	1x	--	40.0	96.4%	(80-120)	--	--	05/06/09 12:36	
Ethylbenzene	"	46.1	---	0.500	"	"	--	"	115%	(75-125)	--	--	"	
Toluene	"	41.4	---	0.500	"	"	--	"	104%	"	--	--	"	
o-Xylene	"	43.6	---	1.00	"	"	--	"	109%	"	--	--	"	
m,p-Xylene	"	93.0	---	2.00	"	"	--	80.0	116%	"	--	--	"	
Xylenes (total)	"	137	---	3.00	"	"	--	120	114%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>118%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>05/06/09 12:36</i>	
<i>Toluene-d8</i>		<i>106%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>99.2%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E06014-MS1)

QC Source: BSE0056-01

Extracted: 05/06/09 11:52

Benzene	EPA 8260B	39.8	---	0.500	ug/l	1x	0.800	40.0	97.5%	(75-130)	--	--	05/06/09 13:05	
Ethylbenzene	"	46.4	---	0.500	"	"	ND	"	116%	(75-135)	--	--	"	
Toluene	"	42.1	---	0.500	"	"	0.350	"	104%	(75-125)	--	--	"	
o-Xylene	"	45.2	---	1.00	"	"	1.17	"	110%	"	--	--	"	
m,p-Xylene	"	93.2	---	2.00	"	"	0.720	80.0	116%	"	--	--	"	
Xylenes (total)	"	138	---	3.00	"	"	1.89	120	114%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>119%</i>	<i>Limits: 80-120%</i>		<i>"</i>							<i>05/06/09 13:05</i>	
<i>Toluene-d8</i>		<i>106%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>99.2%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: 33759383.05000 Project Manager: Melanie Young	Report Created: 05/11/09 15:27
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06014 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9E06014-MSD1)			QC Source: BSE0056-01				Extracted: 05/06/09 11:52							
Benzene	EPA 8260B	39.6	---	0.500	ug/l	1x	0.800	40.0	96.9%	(75-130)	0.630% (25)		05/06/09 13:34	
Ethylbenzene	"	44.8	---	0.500	"	"	ND	"	112%	(75-135)	3.64% (30)		"	
Toluene	"	41.0	---	0.500	"	"	0.350	"	102%	(75-125)	2.62%	"	"	
o-Xylene	"	44.0	---	1.00	"	"	1.17	"	107%	"	2.78%	"	"	
m,p-Xylene	"	90.6	---	2.00	"	"	0.720	80.0	112%	"	2.91%	"	"	
Xylenes (total)	"	135	---	3.00	"	"	1.89	120	111%	"	2.86%	"	"	
Surrogate(s):	1,2-DCA-d4	Recovery:	119%	Limits:	80-120%	"							05/06/09 13:34	
	Toluene-d8		105%		80-120%	"							"	
	4-BFB		99.0%		80-120%	"							"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

05/11/09 15:27

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 8260B	Water	X	X
NWTPH-Dx	Water		X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: 33759383.05000

Project Manager: Melanie Young

Report Created:

05/11/09 15:27

Notes and Definitions

Report Specific Notes:

- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Q12 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.
- Z2 - Surrogate recovery was above the acceptance limits. Data not impacted.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____
Page Time & Initials: _____

Paperwork to PM – Date: _____ Time: _____

Non-Conformances?
Circle Y or N
(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
(applies to temp at receipt)

Date: 5/5/09 Date: 05-05 Date: 05-05 Date: 5/5/09 Work Order No. BSE0056
Time: 1515 Time: 1700 Time: 1650 Time: 1725 Client: _____
Initials: FL Initials: CW Initials: CW Initials: FL Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
_____ Box _____ On Bottles _____ Date _____ Foam Packs _____
_____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client _____
_____ Loose Ice _____ Y or N or NA _____ UPS TA Courier _____
FL None/Other _____ Initial/date/time _____ DHL _____ Mid Valley _____
_____ Servoy _____ TDP _____
_____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)
Temperature Blank? 2.1 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
(initial/date/time): _____
Comments: _____

Sample Containers:	ID	ID
Intact?	<input checked="" type="radio"/> or N _____	Metals Preserved? Y or N or <input checked="" type="radio"/> _____
Provided by TA?	<input checked="" type="radio"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="radio"/> _____
Correct Type?	<input checked="" type="radio"/> or N _____	Adequate Volume? <input checked="" type="radio"/> or N _____ (for tests requested)
#Containers match COC?	<input checked="" type="radio"/> or N _____	Water VOAs: Headspace? Y or <input checked="" type="radio"/> or NA _____
IDs/time/date match COC?	<input checked="" type="radio"/> or N _____	Comments: _____
Hold Times in hold?	<input checked="" type="radio"/> or N _____	

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

May 07, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 05/06/09 17:30.
The following list is a summary of the Work Orders contained in this report, generated on 05/07/09
15:06.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0064	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/07/09 15:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot 34-15	BSE0064-01	Soil	05/06/09 13:00	05/06/09 17:30

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/07/09 15:06
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0064-01 (Amazon Lot 34-15)		Soil			Sampled: 05/06/09 13:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.59	mg/kg dry	1x	9E06041	05/06/09 18:05	05/06/09 18:52	
<i>Surrogate(s): 4-BFB (FID)</i>			95.2%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/07/09 15:06
	Project Manager:	Ty Griffith	

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0064-01 (Amazon Lot 34-15)		Soil			Sampled: 05/06/09 13:00					
Lube Oil	NWTPH-Dx	ND	----	27.5	mg/kg dry	1x	9E06043	05/06/09 17:53	05/07/09 11:10	
Kerosene	"	ND	----	11.0	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	11.0	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				87.9%		54 - 148 %	"			"
<i>Octacosane</i>				97.7%		62 - 142 %	"			"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/07/09 15:06
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0064-01	(Amazon Lot 34-15)	Soil			Sampled: 05/06/09 13:00					
Arsenic	EPA 6020	1.48	----	0.551	mg/kg dry	1x	9E07002	05/07/09 06:19	05/07/09 08:21	
Barium	"	40.8	----	5.51	"	"	"	"	"	
Cadmium	"	ND	----	0.551	"	"	"	"	"	
Chromium	"	22.8	----	0.551	"	"	"	"	"	
Lead	"	3.13	----	0.551	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.102	"	"	9E07014	05/07/09 10:30	05/07/09 11:48	
Selenium	EPA 6020	ND	----	1.10	"	"	9E07002	05/07/09 06:19	05/07/09 08:21	
Silver	"	ND	----	0.551	"	"	"	"	"	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/07/09 15:06

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0064-01 (Amazon Lot 34-15)										
		Soil					Sampled: 05/06/09 13:00			
Acetone	EPA 8260B	ND	----	26.9	ug/kg dry	1x	9E07013	05/07/09 13:31	05/07/09 14:10	C
Benzene	"	ND	----	1.01	"	"	"	"	"	
Bromobenzene	"	ND	----	3.36	"	"	"	"	"	
Bromochloromethane	"	ND	----	3.36	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.36	"	"	"	"	"	
Bromoform	"	ND	----	3.36	"	"	"	"	"	
Bromomethane	"	ND	----	6.71	"	"	"	"	"	
2-Butanone	"	ND	----	20.1	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.36	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	3.36	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	3.36	"	"	"	"	"	
Carbon disulfide	"	ND	----	2.01	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.36	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.34	"	"	"	"	"	
Chloroethane	"	ND	----	3.36	"	"	"	"	"	
Chloroform	"	ND	----	1.68	"	"	"	"	"	
Chloromethane	"	ND	----	6.71	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.36	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	3.36	"	"	"	"	"	
Dibromochloromethane	"	ND	----	3.36	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	6.71	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	3.36	"	"	"	"	"	
Dibromomethane	"	ND	----	3.36	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.36	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	3.36	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	3.36	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	3.36	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.34	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.839	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	2.01	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	2.01	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.68	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.36	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.36	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	6.71	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.36	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.36	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.839	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.69	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	6.71	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.671	"	"	"	"	"	
n-Hexane	"	ND	----	3.36	"	"	"	"	"	
2-Hexanone	"	ND	----	20.1	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/07/09 15:06
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0064-01 (Amazon Lot 34-15)		Soil			Sampled: 05/06/09 13:00					
Isopropylbenzene	EPA 8260B	ND	----	3.36	ug/kg dry	1x	9E07013	05/07/09 13:31	05/07/09 14:10	
p-Isopropyltoluene	"	ND	----	3.36	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	20.1	"	"	"	"	"	
Methylene chloride	"	ND	----	8.06	"	"	"	"	"	
Naphthalene	"	ND	----	6.71	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.36	"	"	"	"	"	
Styrene	"	ND	----	1.68	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	6.71	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	6.71	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.36	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.36	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.34	"	"	"	"	"	
Toluene	"	ND	----	1.01	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.68	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.34	"	"	"	"	"	
Trichloroethene	"	ND	----	1.68	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.36	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.36	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.36	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.36	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.68	"	"	"	"	"	
o-Xylene	"	ND	----	3.36	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.36	"	"	"	"	"	
Total Xylenes	"	ND	----	6.71	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>117%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8</i>			<i>91.0%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
<i>4-BFB</i>			<i>105%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/07/09 15:06
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0064-01 (Amazon Lot 34-15)		Soil			Sampled: 05/06/09 13:00					
Acenaphthene	8270C-SIM	ND	----	0.0110	mg/kg dry	1x	9E06044	05/06/09 17:54	05/07/09 08:52	
Acenaphthylene	"	ND	----	0.0110	"	"	"	"	"	
Anthracene	"	ND	----	0.0110	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0110	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0110	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0110	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0110	"	"	"	"	"	
Benzo (b & k) fluoranthene	"	ND	----	0.0220	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0110	"	"	"	"	"	
Chrysene	"	ND	----	0.0110	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0110	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0110	"	"	"	"	"	
Fluorene	"	ND	----	0.0110	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0110	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0110	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0110	"	"	"	"	"	
Naphthalene	"	ND	----	0.0110	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0110	"	"	"	"	"	
Pyrene	"	ND	----	0.0110	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			64.8%		46 - 125 %	"				

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/07/09 15:06
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0064-01	(Amazon Lot 34-15)	Soil			Sampled: 05/06/09 13:00					
Dry Weight	BSOPSPL003R0 8	90.7	----	1.00	%	1x	9E06046	05/06/09 18:14	05/07/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/07/09 15:06
--	--	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06041 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E06041-BLK1)								Extracted: 05/06/09 17:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/06/09 17:47	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/06/09 17:47</i>	
LCS (9E06041-BS1)								Extracted: 05/06/09 17:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	49.3	---	5.00	mg/kg wet	1x	--	50.0	98.7%	(80-120)	--	--	05/06/09 18:19	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/06/09 18:19</i>	
Duplicate (9E06041-DUP1)				QC Source: BSE0064-01				Extracted: 05/06/09 17:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.59	mg/kg dry	1x	ND	--	--	--	NR (40)		05/06/09 19:24	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/06/09 19:24</i>	
Matrix Spike (9E06041-MS1)				QC Source: BSE0064-01				Extracted: 05/06/09 17:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	57.8	---	5.59	mg/kg dry	1x	ND	50.8	114%	(75-130)	--	--	05/06/09 19:57	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 105%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/06/09 19:57</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/07/09 15:06
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06043 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E06043-BLK1)

Extracted: 05/06/09 17:53

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/07/09 09:36	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/07/09 09:36</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>94.7%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E06043-BS1)

Extracted: 05/06/09 17:53

Lube Oil	NWTPH-Dx	62.7	---	25.0	mg/kg wet	1x	--	66.7	94.0%	(63-125)	--	--	05/07/09 09:59	
Diesel Range Hydrocarbons	"	66.3	---	10.0	"	"	--	"	99.5%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/07/09 09:59</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>94.8%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E06043-DUP1)

QC Source: BSE0064-01

Extracted: 05/06/09 17:53

Lube Oil	NWTPH-Dx	ND	---	27.5	mg/kg dry	1x	ND	--	--	--	NR (50)		05/07/09 10:22	
Kerosene	"	ND	---	11.0	"	"	ND	--	--	--	21.4%	"	"	
Diesel Range Hydrocarbons	"	ND	---	11.0	"	"	ND	--	--	--	3.69%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/07/09 10:22</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>93.4%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E06043-MS1)

QC Source: BSE0064-01

Extracted: 05/06/09 17:53

Lube Oil	NWTPH-Dx	74.0	---	27.5	mg/kg dry	1x	2.15	73.3	98.1%	(26-150)	--	--	05/07/09 10:46	
Diesel Range Hydrocarbons	"	74.0	---	11.0	"	"	1.48	"	99.0%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>81.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/07/09 10:46</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>93.2%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/07/09 15:06
--	--	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07002	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E07002-BLK1)

Extracted: 05/07/09 06:19

Barium	EPA 6020	ND	---	5.05	mg/kg wet	1x	--	--	--	--	--	--	05/07/09 07:50	
Chromium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	1.01	"	"	--	--	--	--	--	--	"	

LCS (9E07002-BS1)

Extracted: 05/07/09 06:19

Chromium	EPA 6020	45.4	---	0.521	mg/kg wet	1x	--	41.7	109%	(80-120)	--	--	05/07/09 07:56	
Barium	"	44.0	---	5.21	"	"	--	"	105%	"	--	--	"	
Cadmium	"	43.7	---	0.521	"	"	--	"	105%	"	--	--	"	
Lead	"	46.1	---	0.521	"	"	--	"	111%	"	--	--	"	
Silver	"	44.8	---	0.521	"	"	--	"	108%	"	--	--	"	
Arsenic	"	44.4	---	0.521	"	"	--	"	107%	"	--	--	"	
Selenium	"	45.8	---	1.04	"	"	--	"	110%	"	--	--	"	

Duplicate (9E07002-DUP1)

QC Source: BSE0064-01

Extracted: 05/07/09 06:19

Barium	EPA 6020	46.3	---	5.30	mg/kg dry	1x	40.8	--	--	--	12.5% (20)	--	05/07/09 08:15	
Chromium	"	21.0	---	0.530	"	"	22.8	--	--	--	8.48%	"	"	
Arsenic	"	1.57	---	0.530	"	"	1.48	--	--	--	5.98%	"	"	
Selenium	"	ND	---	1.06	"	"	ND	--	--	--	NR	"	"	
Silver	"	ND	---	0.530	"	"	ND	--	--	--	NR	"	"	
Cadmium	"	ND	---	0.530	"	"	ND	--	--	--	5.43%	"	"	
Lead	"	2.64	---	0.530	"	"	3.13	--	--	--	16.9%	"	"	

Matrix Spike (9E07002-MS1)

QC Source: BSE0064-01

Extracted: 05/07/09 06:19

Chromium	EPA 6020	66.5	---	0.540	mg/kg dry	1x	22.8	43.2	101%	(75-125)	--	--	05/07/09 08:09	
Cadmium	"	44.1	---	0.540	"	"	0.281	"	101%	"	--	--	"	
Silver	"	41.7	---	0.540	"	"	ND	"	96.4%	"	--	--	"	
Barium	"	84.8	---	5.40	"	"	40.8	"	102%	"	--	--	"	
Arsenic	"	44.7	---	0.540	"	"	1.48	"	99.9%	"	--	--	"	
Selenium	"	44.6	---	1.08	"	"	ND	"	103%	"	--	--	"	
Lead	"	47.3	---	0.540	"	"	3.13	"	102%	"	--	--	"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/07/09 15:06
--	--	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07002	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9E07002-PS1)			QC Source: BSE0064-01				Extracted: 05/07/09 06:19							
Barium	EPA 6020	0.178	---		ug/ml	1x	0.0741	0.100	104%	(80-120)	--	--	05/07/09 08:02	
Arsenic	"	0.112	---		"	"	0.00269	0.0995	110%	"	--	--	"	
Cadmium	"	0.108	---		"	"	0.000510	0.100	107%	"	--	--	"	
Silver	"	0.0995	---		"	"	0.0000600	"	99.5%	"	--	--	"	
Lead	"	0.114	---		"	"	0.00567	"	108%	"	--	--	"	
Chromium	"	0.149	---		"	"	0.0414	"	107%	"	--	--	"	
Selenium	"	0.109	---		"	"	0.000310	"	108%	"	--	--	"	

QC Batch: 9E07014	Soil Preparation Method: EPA 7471A
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E07014-BLK1)							Extracted: 05/07/09 10:30							
Mercury	EPA 7471A	ND	---	0.0999	mg/kg wet	1x	--	--	--	--	--	--	05/07/09 11:35	
LCS (9E07014-BS1)							Extracted: 05/07/09 10:30							
Mercury	EPA 7471A	0.626	---	0.0998	mg/kg wet	1x	--	0.665	94.1%	(80-120)	--	--	05/07/09 11:38	
LCS Dup (9E07014-BSD1)							Extracted: 05/07/09 10:30							
Mercury	EPA 7471A	0.632	---	0.0993	mg/kg wet	1x	--	0.662	95.5%	(80-120)	1.01%	(20)	05/07/09 11:40	
Matrix Spike (9E07014-MS1)			QC Source: BSE0064-01				Extracted: 05/07/09 10:30							
Mercury	EPA 7471A	0.695	---	0.103	mg/kg dry	1x	0.0154	0.689	98.6%	(80-125)	--	--	05/07/09 11:43	
Matrix Spike Dup (9E07014-MSD1)			QC Source: BSE0064-01				Extracted: 05/07/09 10:30							
Mercury	EPA 7471A	0.710	---	0.103	mg/kg dry	1x	0.0154	0.687	101%	(80-125)	2.14%	(30)	05/07/09 11:45	

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	05/07/09 15:06
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07013 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E07013-BLK1)

Extracted: 05/07/09 11:30

Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	05/07/09 13:44	C
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

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Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	05/07/09 15:06
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07013 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E07013-BLK1)													Extracted: 05/07/09 11:30	
Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	05/07/09 13:44	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 128%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>05/07/09 13:44</i>	
<i>Toluene-d8</i>		<i>87.1%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/07/09 15:06

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07013 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9E07013-BS1)													Extracted: 05/07/09 11:30	
Acetone	EPA 8260B	585	---	40.0	ug/kg wet	1x	--	500	117%	(60-140)	--	--	05/07/09 12:53	
Benzene	"	44.8	---	1.50	"	"	--	50.0	89.6%	(70-125)	--	--	"	
2-Butanone	"	449	---	30.0	"	"	--	500	89.8%	(60-140)	--	--	"	
Carbon disulfide	"	48.2	---	3.00	"	"	--	50.0	96.3%	(70-130)	--	--	"	
Chlorobenzene	"	43.7	---	2.00	"	"	--	"	87.3%	(70-125)	--	--	"	
1,1-Dichloroethane	"	47.9	---	2.00	"	"	--	"	95.7%	(75-125)	--	--	"	
1,1-Dichloroethene	"	48.7	---	3.00	"	"	--	"	97.5%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	48.4	---	3.00	"	"	--	"	96.8%	(75-125)	--	--	"	
Ethylbenzene	"	45.8	---	4.00	"	"	--	"	91.7%	(70-125)	--	--	"	
Hexachlorobutadiene	"	49.4	---	10.0	"	"	--	"	98.8%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	515	---	30.0	"	"	--	500	103%	(60-140)	--	--	"	
Tetrachloroethene	"	44.8	---	2.00	"	"	--	50.0	89.7%	(70-125)	--	--	"	
Toluene	"	41.5	---	1.50	"	"	--	"	83.0%	"	--	--	"	
1,1,1-Trichloroethane	"	52.0	---	2.50	"	"	--	"	104%	(70-130)	--	--	"	
Trichloroethene	"	46.1	---	2.50	"	"	--	"	92.2%	(70-125)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 105%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>05/07/09 12:53</i>		
<i>Toluene-d8</i>		<i>94.2%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>98.2%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9E07013-BSD1)

Extracted: 05/07/09 11:30

Acetone	EPA 8260B	605	---	40.0	ug/kg wet	1x	--	500	121%	(60-140)	3.35% (30)		05/07/09 13:19	
Benzene	"	43.2	---	1.50	"	"	--	50.0	86.4%	(70-125)	3.64%	"	"	
2-Butanone	"	519	---	30.0	"	"	--	500	104%	(60-140)	14.6%	"	"	
Carbon disulfide	"	43.3	---	3.00	"	"	--	50.0	86.5%	(70-130)	10.7%	"	"	
Chlorobenzene	"	42.2	---	2.00	"	"	--	"	84.3%	(70-125)	3.49%	"	"	
1,1-Dichloroethane	"	45.6	---	2.00	"	"	--	"	91.3%	(75-125)	4.73%	"	"	
1,1-Dichloroethene	"	44.3	---	3.00	"	"	--	"	88.5%	(70-130)	9.61%	"	"	
cis-1,2-Dichloroethene	"	45.2	---	3.00	"	"	--	"	90.4%	(75-125)	6.88%	"	"	
Ethylbenzene	"	43.4	---	4.00	"	"	--	"	86.7%	(70-125)	5.58%	"	"	
Hexachlorobutadiene	"	44.4	---	10.0	"	"	--	"	88.8%	(70-130)	10.7%	"	"	
4-Methyl-2-pentanone	"	579	---	30.0	"	"	--	500	116%	(60-140)	11.7%	"	"	
Tetrachloroethene	"	43.5	---	2.00	"	"	--	50.0	87.0%	(70-125)	3.10%	"	"	
Toluene	"	40.9	---	1.50	"	"	--	"	81.8%	"	1.46%	"	"	
1,1,1-Trichloroethane	"	47.7	---	2.50	"	"	--	"	95.5%	(70-130)	8.54%	"	"	
Trichloroethene	"	44.8	---	2.50	"	"	--	"	89.6%	(70-125)	2.86%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 105%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>05/07/09 13:19</i>		
<i>Toluene-d8</i>		<i>93.5%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>100%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/07/09 15:06
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06044 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E06044-BLK1)													Extracted: 05/06/09 17:54			
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	05/07/09 08:20			
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	I2		
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	I2		
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	I2		
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	I2		
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	I2		
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	C		
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	I2		
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): p-Terphenyl-d14</i>													<i>Recovery: 70.6%</i>	<i>Limits: 46-125%</i>	<i>"</i>	<i>05/07/09 08:20</i>

LCS (9E06044-BS1)													Extracted: 05/06/09 17:54	
Acenaphthene	8270C-SIM	0.667	---	0.0100	mg/kg wet	1x	--	0.667	100%	(65-130)	--	--	05/07/09 09:24	
Acenaphthylene	"	0.701	---	0.0100	"	"	--	"	105%	(67-142)	--	--	"	
Anthracene	"	0.822	---	0.0100	"	"	--	"	123%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.685	---	0.0100	"	"	--	"	103%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.705	---	0.0100	"	"	--	"	106%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.728	---	0.0100	"	"	--	"	109%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.687	---	0.0100	"	"	--	"	103%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.544	---	0.0100	"	"	--	"	81.7%	"	--	--	"	
Chrysene	"	0.711	---	0.0100	"	"	--	"	107%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.553	---	0.0100	"	"	--	"	83.0%	(56-149)	--	--	"	
Fluoranthene	"	0.871	---	0.0100	"	"	--	"	131%	(72-145)	--	--	"	C8
Fluorene	"	0.778	---	0.0100	"	"	--	"	117%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.548	---	0.0100	"	"	--	"	82.3%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.756	---	0.0100	"	"	--	"	113%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.790	---	0.0100	"	"	--	"	118%	(56-124)	--	--	"	
Naphthalene	"	0.724	---	0.0100	"	"	--	"	109%	(56-146)	--	--	"	
Phenanthrene	"	0.677	---	0.0100	"	"	--	"	102%	(64-139)	--	--	"	
Pyrene	"	0.577	---	0.0100	"	"	--	"	86.5%	(58-149)	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/07/09 15:06

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06044 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9E06044-BS1)

Extracted: 05/06/09 17:54

Surrogate(s): p-Terphenyl-d14 Recovery: 67.1% Limits: 46-125% 1x 05/07/09 09:24

Matrix Spike (9E06044-MS1)

QC Source: BSE0064-01

Extracted: 05/06/09 17:54

Acenaphthene	8270C-SIM	0.604	---	0.0110	mg/kg dry	1x	ND	0.733	82.4%	(64-140)	--	--	05/07/09 09:56	
Acenaphthylene	"	0.634	---	0.0110	"	"	ND	"	86.6%	(66-150)	--	--	"	
Anthracene	"	0.771	---	0.0110	"	"	ND	"	105%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.650	---	0.0110	"	"	0.00234	"	88.5%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.668	---	0.0110	"	"	ND	"	91.1%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.683	---	0.0110	"	"	ND	"	93.2%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.626	---	0.0110	"	"	0.00205	"	85.1%	"	--	--	"	
Benzo (ghi) perylene	"	0.534	---	0.0110	"	"	ND	"	72.8%	"	--	--	"	
Chrysene	"	0.673	---	0.0110	"	"	0.00205	"	91.5%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.542	---	0.0110	"	"	ND	"	74.0%	(55-150)	--	--	"	
Fluoranthene	"	0.832	---	0.0110	"	"	0.00388	"	113%	(70-150)	--	--	"	C8
Fluorene	"	0.710	---	0.0110	"	"	ND	"	96.9%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.537	---	0.0110	"	"	ND	"	73.3%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.663	---	0.0110	"	"	ND	"	90.5%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.696	---	0.0110	"	"	ND	"	95.0%	(50-140)	--	--	"	
Naphthalene	"	0.637	---	0.0110	"	"	ND	"	86.9%	(47-147)	--	--	"	
Phenanthrene	"	0.642	---	0.0110	"	"	0.00264	"	87.2%	(56-150)	--	--	"	
Pyrene	"	0.552	---	0.0110	"	"	0.00403	"	74.8%	(57-150)	--	--	"	

Surrogate(s): p-Terphenyl-d14 Recovery: 57.4% Limits: 46-125% " 05/07/09 09:56

Matrix Spike Dup (9E06044-MSD1)

QC Source: BSE0064-01

Extracted: 05/06/09 17:54

Acenaphthene	8270C-SIM	0.591	---	0.0110	mg/kg dry	1x	ND	0.733	80.6%	(64-140)	2.15%	(41)	05/07/09 10:29	
Acenaphthylene	"	0.624	---	0.0110	"	"	ND	"	85.2%	(66-150)	1.61%	"	"	
Anthracene	"	0.774	---	0.0110	"	"	ND	"	106%	(54-150)	0.446%	"	"	
Benzo (a) anthracene	"	0.646	---	0.0110	"	"	0.00234	"	87.8%	(57-150)	0.723%	"	"	
Benzo (a) pyrene	"	0.652	---	0.0110	"	"	ND	"	89.0%	(55-150)	2.42%	(35)	"	
Benzo (b) fluoranthene	"	0.675	---	0.0110	"	"	ND	"	92.1%	(54-150)	1.14%	(41)	"	
Benzo (k) fluoranthene	"	0.613	---	0.0110	"	"	0.00205	"	83.4%	"	2.11%	"	"	
Benzo (ghi) perylene	"	0.528	---	0.0110	"	"	ND	"	72.0%	"	1.13%	"	"	
Chrysene	"	0.668	---	0.0110	"	"	0.00205	"	90.9%	(65-150)	0.667%	(40)	"	
Dibenz (a,h) anthracene	"	0.531	---	0.0110	"	"	ND	"	72.5%	(55-150)	2.06%	(41)	"	
Fluoranthene	"	0.827	---	0.0110	"	"	0.00388	"	112%	(70-150)	0.662%	"	"	C8
Fluorene	"	0.703	---	0.0110	"	"	ND	"	96.0%	(74-150)	0.923%	(44)	"	
Indeno (1,2,3-cd) pyrene	"	0.525	---	0.0110	"	"	ND	"	71.7%	(50-150)	2.22%	"	"	
1-Methylnaphthalene	"	0.633	---	0.0110	"	"	ND	"	86.4%	(45-145)	4.63%	(41)	"	
2-Methylnaphthalene	"	0.658	---	0.0110	"	"	ND	"	89.8%	(50-140)	5.52%	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/07/09 15:06
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06044 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9E06044-MSD1)			QC Source: BSE0064-01				Extracted: 05/06/09 17:54							
Naphthalene	8270C-SIM	0.596	---	0.0110	mg/kg dry	1x	ND	0.733	81.4%	(47-147)	6.55%	(41)	05/07/09 10:29	
Phenanthrene	"	0.644	---	0.0110	"	"	0.00264	"	87.5%	(56-150)	0.319%	"	"	
Pyrene	"	0.541	---	0.0110	"	"	0.00403	"	73.3%	(57-150)	2.04%	"	"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 56.9%		Limits: 46-125%		"		05/07/09 10:29						

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/07/09 15:06
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E06046 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E06046-BLK1)										Extracted: 05/06/09 18:14				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/07/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/07/09 15:06

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/07/09 15:06

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I2 - Internal Standard recovery was outside of method limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: BAE0014

CLIENT: <u>WRS Corp</u>		INVOICE TO: <u>WRS Corp, Seattle 1501 4th Ave, Ste 1400 Seattle, WA 98101</u>						TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: <u>24-hr</u> * Turnaround Requests less than standard may incur Rush Charges.									
REPORT TO: <u>WMEP Staff</u> ADDRESS:		P.O. NUMBER:															
PHONE: FAX:		PRESERVATIVE															
PROJECT NAME: <u>WMEP Phase II</u>		REQUESTED ANALYSES															
PROJECT NUMBER:																	
SAMPLED BY: <u>Matthew McKibbin</u>																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC's	8260B	RCRA-8	PAH's	MUTPH	OX	MUTPH	Dx					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
<u>1 Amazon lot 34-15</u>	<u>5-6-09 / 1300</u>	X	X	X	X	X								<u>S</u>	<u>4</u>	<u>Clean Fill</u>	<u>01</u>
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
RELEASED BY: <u>Matt Nylk</u>	DATE: <u>5-6-09</u>	RECEIVED BY: <u>Francisco Luna, Jr.</u>	DATE: <u>5/6/09</u>	PRINT NAME: <u>MATTHEW NYKOBEN</u>		FIRM: <u>WRS</u>	TIME: <u>1330</u>	PRINT NAME: <u>TH-SEA</u>		FIRM: <u>TH-SEA</u>	DATE: <u>5/6/09</u>	TIME: <u>1550</u>	PRINT NAME:		FIRM:	DATE:	TIME:
RELEASED BY:	DATE:	RECEIVED BY:	DATE:	PRINT NAME:		FIRM:	TIME:	PRINT NAME:		FIRM:	DATE:	TIME:	PRINT NAME:		FIRM:	DATE:	TIME:
ADDITIONAL REMARKS:												<u>@Lab 1730 w/d</u>		TEMP: <u>c</u>	PAGE OF		

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or **N**

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____

Logged-in By: _____

Unpacked/

Label Review by: Cooler ID: _____

(applies to temp at receipt)

Labeled by: _____

Date: 5/6/04

Date: 5/6

Date: 5/6

Date: Taken away Work Order No. BDF 00104

Time: 1730

Time: 1742

Time: 1750

Time: _____ Client: _____

Initials: FL

Initials: OB

Initials: CB

Initials: _____ Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46: _____

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time _____

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)

(circle one)

Temperature Blank? 3.3 or NA comments _____

Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or N or _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or _____

Correct Type? or N _____

Adequate Volume? or N _____

#Containers match COC? or N _____

(for tests requested) Water VOAs: Headspace? Y or N or _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

May 08, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 05/07/09 17:15.
The following list is a summary of the Work Orders contained in this report, generated on 05/08/09
16:47.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0081	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/08/09 16:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot 34-16	BSE0081-01	Soil	05/07/09 12:30	05/07/09 17:15

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/08/09 16:47

Analytical Case Narrative

TestAmerica - Seattle, WA

BSE0081

SAMPLE RECEIPT

The samples were received 05/07/2009 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 5.9 degrees Celsius. The sampled time on the label of the 8 ounce jar was listed as 1530, however the COC lists the sampled time as 1230. The sample was logged in per the COC.

PREPARATIONS AND ANALYSIS

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/08/09 16:47
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0081-01 (Amazon Lot 34-16)		Soil			Sampled: 05/07/09 12:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	6.18	mg/kg dry	1x	9E07034	05/07/09 17:00	05/07/09 20:01	
Surrogate(s): 4-BFB (FID)			94.1%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/08/09 16:47
	Project Manager:	Ty Griffith	

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0081-01 (Amazon Lot 34-16)		Soil			Sampled: 05/07/09 12:30					
Lube Oil	NWTPH-Dx	47.9	----	27.2	mg/kg dry	1x	9E07023	05/07/09 12:41	05/07/09 23:31	
Kerosene	"	ND	----	10.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	11.1	----	10.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			<i>94.8%</i>		<i>54 - 148 %</i>	<i>"</i>				<i>"</i>
<i>Octacosane</i>			<i>109%</i>		<i>62 - 142 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/08/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0081-01 (Amazon Lot 34-16)										
		Soil					Sampled: 05/07/09 12:30			
Acetone	EPA 8260B	ND	----	28.4	ug/kg dry	1x	9E07013	05/07/09 13:31	05/07/09 18:01	C
Benzene	"	ND	----	1.06	"	"	"	"	"	
Bromobenzene	"	ND	----	3.55	"	"	"	"	"	
Bromochloromethane	"	ND	----	3.55	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.55	"	"	"	"	"	
Bromoform	"	ND	----	3.55	"	"	"	"	"	
Bromomethane	"	ND	----	7.09	"	"	"	"	"	
2-Butanone	"	ND	----	21.3	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.55	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	3.55	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	3.55	"	"	"	"	"	
Carbon disulfide	"	ND	----	2.13	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.55	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.42	"	"	"	"	"	
Chloroethane	"	ND	----	3.55	"	"	"	"	"	
Chloroform	"	ND	----	1.77	"	"	"	"	"	
Chloromethane	"	ND	----	7.09	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.55	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	3.55	"	"	"	"	"	
Dibromochloromethane	"	ND	----	3.55	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	7.09	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	3.55	"	"	"	"	"	
Dibromomethane	"	ND	----	3.55	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.55	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	3.55	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	3.55	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	3.55	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.42	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.886	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	2.13	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	2.13	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.77	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.55	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.55	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	7.09	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.55	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.55	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.886	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.84	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	7.09	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.709	"	"	"	"	"	
n-Hexane	"	ND	----	3.55	"	"	"	"	"	
2-Hexanone	"	ND	----	21.3	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/08/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0081-01 (Amazon Lot 34-16)		Soil		Sampled: 05/07/09 12:30						
Isopropylbenzene	EPA 8260B	ND	----	3.55	ug/kg dry	1x	9E07013	05/07/09 13:31	05/07/09 18:01	
p-Isopropyltoluene	"	ND	----	3.55	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	21.3	"	"	"	"	"	
Methylene chloride	"	ND	----	8.51	"	"	"	"	"	
Naphthalene	"	ND	----	7.09	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.55	"	"	"	"	"	
Styrene	"	ND	----	1.77	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	7.09	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	7.09	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.55	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.55	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.42	"	"	"	"	"	
Toluene	"	ND	----	1.06	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.77	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.42	"	"	"	"	"	
Trichloroethene	"	ND	----	1.77	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.55	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.55	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.55	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.55	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.77	"	"	"	"	"	
o-Xylene	"	ND	----	3.55	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.55	"	"	"	"	"	
Total Xylenes	"	ND	----	7.09	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>115%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>94.3%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>104%</i>	<i>70 - 130 %</i>						

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/08/09 16:47

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0081-01	(Amazon Lot 34-16)	Soil		Sampled: 05/07/09 12:30						
Acenaphthene	8270C-SIM	ND	----	0.0109	mg/kg dry	1x	9E07022	05/07/09 12:40	05/08/09 14:28	
Acenaphthylene	"	ND	----	0.0109	"	"	"	"	"	
Anthracene	"	ND	----	0.0109	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0109	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0109	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0109	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0109	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0109	"	"	"	"	"	
Chrysene	"	ND	----	0.0109	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0109	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0109	"	"	"	"	"	
Fluorene	"	ND	----	0.0109	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0109	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0109	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0109	"	"	"	"	"	
Naphthalene	"	ND	----	0.0109	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0109	"	"	"	"	"	
Pyrene	"	ND	----	0.0109	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			61.3%		46 - 125 %	"				

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/08/09 16:47
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0081-01	(Amazon Lot 34-16)	Soil			Sampled: 05/07/09 12:30					
Dry Weight	BSOPSPL003R0 8	91.0	----	1.00	%	1x	9E07024	05/07/09 16:00	05/08/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/08/09 16:47
--	--	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07034 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E07034-BLK1)										Extracted: 05/07/09 17:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/07/09 18:40	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.4%</i>		<i>Limits: 75-140%</i>		<i>"</i>							<i>05/07/09 18:40</i>	
LCS (9E07034-BS1)										Extracted: 05/07/09 17:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	55.1	---	5.00	mg/kg wet	1x	--	50.0	110%	(80-120)	--	--	05/07/09 19:12	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.1%</i>		<i>Limits: 75-140%</i>		<i>"</i>							<i>05/07/09 19:12</i>	
Duplicate (9E07034-DUP1)										QC Source: BSE0081-01		Extracted: 05/07/09 17:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	6.18	mg/kg dry	1x	ND	--	--	--	NR (40)		05/07/09 20:33	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.3%</i>		<i>Limits: 75-140%</i>		<i>"</i>							<i>05/07/09 20:33</i>	
Matrix Spike (9E07034-MS1)										QC Source: BSE0081-01		Extracted: 05/07/09 17:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	68.1	---	6.18	mg/kg dry	1x	ND	56.8	120%	(75-130)	--	--	05/07/09 22:10	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 106%</i>		<i>Limits: 75-140%</i>		<i>"</i>							<i>05/07/09 22:10</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/08/09 16:47
--	--	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07023 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E07023-BLK1)

Extracted: 05/07/09 12:41

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/07/09 20:16	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/07/09 20:16</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E07023-BS1)

Extracted: 05/07/09 12:41

Lube Oil	NWTPH-Dx	68.1	---	25.0	mg/kg wet	1x	--	66.7	102%	(63-125)	--	--	05/07/09 20:38	
Diesel Range Hydrocarbons	"	78.4	---	10.0	"	"	--	"	118%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/07/09 20:38</i>	
<i>Octacosane</i>			<i>108%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E07023-DUP1)

QC Source: BSE0049-01

Extracted: 05/07/09 12:41

Lube Oil	NWTPH-Dx	854	---	28.5	mg/kg dry	1x	595	--	--	--	35.8%	(50)	05/07/09 21:00	E
Kerosene	"	47.9	---	11.4	"	"	32.9	--	--	--	37.2%	"	"	
Diesel Range Hydrocarbons	"	169	---	11.4	"	"	118	--	--	--	35.5%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/07/09 21:00</i>	
<i>Octacosane</i>			<i>115%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E07023-MS1)

QC Source: BSE0049-01

Extracted: 05/07/09 12:41

Lube Oil	NWTPH-Dx	1050	---	28.5	mg/kg dry	1x	595	75.9	595%	(26-150)	--	--	05/07/09 21:22	MHA, E
Diesel Range Hydrocarbons	"	315	---	11.4	"	"	118	"	259%	(46-155)	--	--	"	MHA
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/07/09 21:22</i>	
<i>Octacosane</i>			<i>113%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/08/09 16:47
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07042 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E07042-BLK1)													Extracted: 05/07/09 20:52	
Cadmium	EPA 6020	ND	---	0.521	mg/kg wet	1x	--	--	--	--	--	--	05/08/09 09:53	
Barium	"	ND	---	5.21	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	1.04	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.521	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.521	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.521	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.521	"	"	--	--	--	--	--	--	"	
LCS (9E07042-BS1)													Extracted: 05/07/09 20:52	
Silver	EPA 6020	39.0	---	0.490	mg/kg wet	1x	--	39.2	99.4%	(80-120)	--	--	05/08/09 09:59	
Lead	"	37.3	---	0.490	"	"	--	"	95.0%	"	--	--	"	
Chromium	"	39.2	---	0.490	"	"	--	"	99.8%	"	--	--	"	
Cadmium	"	38.1	---	0.490	"	"	--	"	97.2%	"	--	--	"	
Selenium	"	39.7	---	0.980	"	"	--	"	101%	"	--	--	"	
Arsenic	"	38.5	---	0.490	"	"	--	"	98.2%	"	--	--	"	
Barium	"	39.5	---	4.90	"	"	--	"	101%	"	--	--	"	
Duplicate (9E07042-DUP1)													QC Source: BSE0081-01 Extracted: 05/07/09 20:52	
Cadmium	EPA 6020	ND	---	0.550	mg/kg dry	1x	ND	--	--	--	8.84% (20)	--	05/08/09 10:12	
Silver	"	ND	---	0.550	"	"	ND	--	--	--	NR	"	"	
Arsenic	"	1.70	---	0.550	"	"	1.72	--	--	--	1.25%	"	"	
Lead	"	5.12	---	0.550	"	"	11.4	--	--	--	76.5%	"	"	R3
Selenium	"	ND	---	1.10	"	"	ND	--	--	--	NR	"	"	
Chromium	"	24.3	---	0.550	"	"	22.2	--	--	--	8.81%	"	"	
Barium	"	50.8	---	5.50	"	"	44.3	--	--	--	13.6%	"	"	
Matrix Spike (9E07042-MS1)													QC Source: BSE0081-01 Extracted: 05/07/09 20:52	
Selenium	EPA 6020	45.3	---	1.13	mg/kg dry	1x	ND	45.3	99.9%	(75-125)	--	--	05/08/09 10:06	
Chromium	"	77.5	---	0.567	"	"	22.2	"	122%	"	--	--	"	
Lead	"	48.6	---	0.567	"	"	11.4	"	81.9%	"	--	--	"	
Silver	"	42.1	---	0.567	"	"	ND	"	92.8%	"	--	--	"	
Cadmium	"	45.7	---	0.567	"	"	0.267	"	100%	"	--	--	"	
Barium	"	94.4	---	5.67	"	"	44.3	"	110%	"	--	--	"	
Arsenic	"	45.2	---	0.567	"	"	1.72	"	96.0%	"	--	--	"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/08/09 16:47
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07042	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9E07042-PS1)			QC Source: BSE0081-01				Extracted: 05/07/09 20:52							
Arsenic	EPA 6020	0.103	---		ug/ml	1x	0.00316	0.0995	101%	(80-120)	--	--	05/08/09 10:18	
Selenium	"	0.101	---		"	"	0.000150	0.100	101%	"	--	--	"	
Cadmium	"	0.100	---		"	"	0.000490	"	99.7%	"	--	--	"	
Lead	"	0.118	---		"	"	0.0210	"	96.1%	"	--	--	"	
Barium	"	0.177	---		"	"	0.0815	"	95.2%	"	--	--	"	
Chromium	"	0.139	---		"	"	0.0408	"	97.4%	"	--	--	"	
Silver	"	0.0937	---		"	"	0.0000500	"	93.7%	"	--	--	"	

QC Batch: 9E08001	Soil Preparation Method: EPA 7471A
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E08001-BLK1)			QC Source: BSE0081-01				Extracted: 05/08/09 08:13							
Mercury	EPA 7471A	ND	---	0.0994	mg/kg wet	1x	--	--	--	--	--	--	05/08/09 09:38	
LCS (9E08001-BS1)			QC Source: BSE0081-01				Extracted: 05/08/09 08:13							
Mercury	EPA 7471A	0.586	---	0.0938	mg/kg wet	1x	--	0.625	93.6%	(80-120)	--	--	05/08/09 09:40	
LCS Dup (9E08001-BSD1)			QC Source: BSE0081-01				Extracted: 05/08/09 08:13							
Mercury	EPA 7471A	0.626	---	0.0991	mg/kg wet	1x	--	0.661	94.7%	(80-120)	6.63%	(20)	05/08/09 09:43	
Matrix Spike (9E08001-MS1)			QC Source: BSE0081-01				Extracted: 05/08/09 08:13							
Mercury	EPA 7471A	0.754	---	0.108	mg/kg dry	1x	0.0277	0.722	101%	(80-125)	--	--	05/08/09 09:45	
Matrix Spike Dup (9E08001-MSD1)			QC Source: BSE0081-01				Extracted: 05/08/09 08:13							
Mercury	EPA 7471A	0.732	---	0.107	mg/kg dry	1x	0.0277	0.715	98.5%	(80-125)	3.06%	(30)	05/08/09 09:48	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/08/09 16:47
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07013 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E07013-BLK1)

Extracted: 05/07/09 11:30

Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	05/07/09 13:44	C
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	05/08/09 16:47
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07013 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E07013-BLK1)													Extracted: 05/07/09 11:30	
Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	05/07/09 13:44	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 128%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>05/07/09 13:44</i>	
<i>Toluene-d8</i>		<i>87.1%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>103%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/08/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07013 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9E07013-BS1)													Extracted: 05/07/09 11:30	
Acetone	EPA 8260B	585	---	40.0	ug/kg wet	1x	--	500	117%	(60-140)	--	--	05/07/09 12:53	
Benzene	"	44.8	---	1.50	"	"	--	50.0	89.6%	(70-125)	--	--	"	
2-Butanone	"	449	---	30.0	"	"	--	500	89.8%	(60-140)	--	--	"	
Carbon disulfide	"	48.2	---	3.00	"	"	--	50.0	96.3%	(70-130)	--	--	"	
Chlorobenzene	"	43.7	---	2.00	"	"	--	"	87.3%	(70-125)	--	--	"	
1,1-Dichloroethane	"	47.9	---	2.00	"	"	--	"	95.7%	(75-125)	--	--	"	
1,1-Dichloroethene	"	48.7	---	3.00	"	"	--	"	97.5%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	48.4	---	3.00	"	"	--	"	96.8%	(75-125)	--	--	"	
Ethylbenzene	"	45.8	---	4.00	"	"	--	"	91.7%	(70-125)	--	--	"	
Hexachlorobutadiene	"	49.4	---	10.0	"	"	--	"	98.8%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	515	---	30.0	"	"	--	500	103%	(60-140)	--	--	"	
Tetrachloroethene	"	44.8	---	2.00	"	"	--	50.0	89.7%	(70-125)	--	--	"	
Toluene	"	41.5	---	1.50	"	"	--	"	83.0%	"	--	--	"	
1,1,1-Trichloroethane	"	52.0	---	2.50	"	"	--	"	104%	(70-130)	--	--	"	
Trichloroethene	"	46.1	---	2.50	"	"	--	"	92.2%	(70-125)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/07/09 12:53</i>	
<i>Toluene-d8</i>			<i>94.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E07013-BSD1)

Extracted: 05/07/09 11:30

Acetone	EPA 8260B	605	---	40.0	ug/kg wet	1x	--	500	121%	(60-140)	3.35% (30)		05/07/09 13:19	
Benzene	"	43.2	---	1.50	"	"	--	50.0	86.4%	(70-125)	3.64%	"	"	
2-Butanone	"	519	---	30.0	"	"	--	500	104%	(60-140)	14.6%	"	"	
Carbon disulfide	"	43.3	---	3.00	"	"	--	50.0	86.5%	(70-130)	10.7%	"	"	
Chlorobenzene	"	42.2	---	2.00	"	"	--	"	84.3%	(70-125)	3.49%	"	"	
1,1-Dichloroethane	"	45.6	---	2.00	"	"	--	"	91.3%	(75-125)	4.73%	"	"	
1,1-Dichloroethene	"	44.3	---	3.00	"	"	--	"	88.5%	(70-130)	9.61%	"	"	
cis-1,2-Dichloroethene	"	45.2	---	3.00	"	"	--	"	90.4%	(75-125)	6.88%	"	"	
Ethylbenzene	"	43.4	---	4.00	"	"	--	"	86.7%	(70-125)	5.58%	"	"	
Hexachlorobutadiene	"	44.4	---	10.0	"	"	--	"	88.8%	(70-130)	10.7%	"	"	
4-Methyl-2-pentanone	"	579	---	30.0	"	"	--	500	116%	(60-140)	11.7%	"	"	
Tetrachloroethene	"	43.5	---	2.00	"	"	--	50.0	87.0%	(70-125)	3.10%	"	"	
Toluene	"	40.9	---	1.50	"	"	--	"	81.8%	"	1.46%	"	"	
1,1,1-Trichloroethane	"	47.7	---	2.50	"	"	--	"	95.5%	(70-130)	8.54%	"	"	
Trichloroethene	"	44.8	---	2.50	"	"	--	"	89.6%	(70-125)	2.86%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/07/09 13:19</i>	
<i>Toluene-d8</i>			<i>93.5%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>100%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	05/08/09 16:47
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07022 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E07022-BLK2)													Extracted: 05/07/09 12:40	
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	05/08/09 13:56	
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	C
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	

Surrogate(s): p-Terphenyl-d14 Recovery: 70.1% Limits: 46-125% " 05/08/09 13:56

LCS (9E07022-BS2)													Extracted: 05/07/09 12:40	
Acenaphthene	8270C-SIM	0.523	---	0.0100	mg/kg wet	1x	--	0.667	78.4%	(65-130)	--	--	05/08/09 15:00	
Acenaphthylene	"	0.538	---	0.0100	"	"	--	"	80.7%	(67-142)	--	--	"	
Anthracene	"	0.671	---	0.0100	"	"	--	"	101%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.569	---	0.0100	"	"	--	"	85.3%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.577	---	0.0100	"	"	--	"	86.6%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.557	---	0.0100	"	"	--	"	83.5%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.648	---	0.0100	"	"	--	"	97.2%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.556	---	0.0100	"	"	--	"	83.4%	"	--	--	"	
Chrysene	"	0.599	---	0.0100	"	"	--	"	89.8%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.549	---	0.0100	"	"	--	"	82.4%	(56-149)	--	--	"	
Fluoranthene	"	0.690	---	0.0100	"	"	--	"	103%	(72-145)	--	--	"	C8
Fluorene	"	0.594	---	0.0100	"	"	--	"	89.0%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.536	---	0.0100	"	"	--	"	80.3%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.529	---	0.0100	"	"	--	"	79.4%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.544	---	0.0100	"	"	--	"	81.5%	(56-124)	--	--	"	
Naphthalene	"	0.514	---	0.0100	"	"	--	"	77.2%	(56-146)	--	--	"	
Phenanthrene	"	0.562	---	0.0100	"	"	--	"	84.4%	(64-139)	--	--	"	
Pyrene	"	0.621	---	0.0100	"	"	--	"	93.1%	(58-149)	--	--	"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/08/09 16:47
--	--	-----------------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07022 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9E07022-BS2) Extracted: 05/07/09 12:40
Surrogate(s): p-Terphenyl-d14 Recovery: 71.8% Limits: 46-125% 1x 05/08/09 15:00

Matrix Spike (9E07022-MS1) QC Source: BSE0081-01 Extracted: 05/07/09 12:40

Acenaphthene	8270C-SIM	0.571	---	0.0110	mg/kg dry	1x	ND	0.733	77.9%	(64-140)	--	--	05/08/09 15:33	
Acenaphthylene	"	0.590	---	0.0110	"	"	ND	"	80.5%	(66-150)	--	--	"	
Anthracene	"	0.736	---	0.0110	"	"	ND	"	101%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.644	---	0.0110	"	"	0.00384	"	87.4%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.641	---	0.0110	"	"	0.00414	"	86.9%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.587	---	0.0110	"	"	0.00326	"	79.7%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.682	---	0.0110	"	"	0.00428	"	92.5%	"	--	--	"	
Benzo (ghi) perylene	"	0.640	---	0.0110	"	"	0.00283	"	87.0%	"	--	--	"	
Chrysene	"	0.667	---	0.0110	"	"	0.00464	"	90.4%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.646	---	0.0110	"	"	ND	"	88.1%	(55-150)	--	--	"	
Fluoranthene	"	0.787	---	0.0110	"	"	0.00929	"	106%	(70-150)	--	--	"	C8
Fluorene	"	0.683	---	0.0110	"	"	ND	"	93.2%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.621	---	0.0110	"	"	0.00218	"	84.5%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.584	---	0.0110	"	"	ND	"	79.7%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.602	---	0.0110	"	"	ND	"	82.1%	(50-140)	--	--	"	
Naphthalene	"	0.541	---	0.0110	"	"	ND	"	73.8%	(47-147)	--	--	"	
Phenanthrene	"	0.615	---	0.0110	"	"	0.00290	"	83.5%	(56-150)	--	--	"	
Pyrene	"	0.607	---	0.0110	"	"	0.00776	"	81.7%	(57-150)	--	--	"	

Surrogate(s): p-Terphenyl-d14 Recovery: 62.6% Limits: 46-125% " 05/08/09 15:33

Matrix Spike Dup (9E07022-MSD1) QC Source: BSE0081-01 Extracted: 05/07/09 12:40

Acenaphthene	8270C-SIM	0.562	---	0.0109	mg/kg dry	1x	ND	0.725	77.4%	(64-140)	1.56%	(41)	05/08/09 16:05	
Acenaphthylene	"	0.583	---	0.0109	"	"	ND	"	80.4%	(66-150)	1.21%	"	"	
Anthracene	"	0.717	---	0.0109	"	"	ND	"	98.9%	(54-150)	2.63%	"	"	
Benzo (a) anthracene	"	0.628	---	0.0109	"	"	0.00384	"	86.0%	(57-150)	2.50%	"	"	
Benzo (a) pyrene	"	0.636	---	0.0109	"	"	0.00414	"	87.0%	(55-150)	0.881%	(35)	"	
Benzo (b) fluoranthene	"	0.572	---	0.0109	"	"	0.00326	"	78.4%	(54-150)	2.63%	(41)	"	
Benzo (k) fluoranthene	"	0.672	---	0.0109	"	"	0.00428	"	92.0%	"	1.54%	"	"	
Benzo (ghi) perylene	"	0.641	---	0.0109	"	"	0.00283	"	87.9%	"	0.0520%	"	"	
Chrysene	"	0.653	---	0.0109	"	"	0.00464	"	89.4%	(65-150)	2.00%	(40)	"	
Dibenz (a,h) anthracene	"	0.646	---	0.0109	"	"	ND	"	89.1%	(55-150)	0.134%	(41)	"	
Fluoranthene	"	0.777	---	0.0109	"	"	0.00929	"	106%	(70-150)	1.38%	"	"	
Fluorene	"	0.666	---	0.0109	"	"	ND	"	91.8%	(74-150)	2.56%	(44)	"	
Indeno (1,2,3-cd) pyrene	"	0.622	---	0.0109	"	"	0.00218	"	85.4%	(50-150)	0.0961%	"	"	
1-Methylnaphthalene	"	0.582	---	0.0109	"	"	ND	"	80.3%	(45-145)	0.307%	(41)	"	
2-Methylnaphthalene	"	0.613	---	0.0109	"	"	ND	"	84.5%	(50-140)	1.83%	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/08/09 16:47
--	--	-----------------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07022 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9E07022-MSD1)			QC Source: BSE0081-01				Extracted: 05/07/09 12:40							
Naphthalene	8270C-SIM	0.552	---	0.0109	mg/kg dry	1x	ND	0.725	76.1%	(47-147)	2.07%	(41)	05/08/09 16:05	
Phenanthrene	"	0.604	---	0.0109	"	"	0.00290	"	82.8%	(56-150)	1.84%	"	"	
Pyrene	"	0.579	---	0.0109	"	"	0.00776	"	78.8%	(57-150)	4.58%	"	"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 60.6%		Limits: 46-125%		"		05/08/09 16:05						

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/08/09 16:47
--	--	-----------------------------------

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E07024 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E07024-BLK1)										Extracted: 05/07/09 12:42				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/08/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/08/09 16:47

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/08/09 16:47

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- E - Concentration exceeds the calibration range and therefore result is semi-quantitative.
- MHA - Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSE0081**

CLIENT: WAS CORP		INVOICE TO:		TURNAROUND REQUEST																	
REPORT TO: WMLP Staff		WAS Corp		in Business Days *																	
ADDRESS:		1501 4th Ave, Ste 1400		Organic & Inorganic Analyses																	
PHONE:		Seattle, WA 98101		<table border="1"> <tr><td>10</td><td>7</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td><1</td></tr> <tr><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td></tr> </table>		10	7	5	4	3	2	1	<1	STD.							
10	7	5	4	3	2	1	<1														
STD.	STD.	STD.	STD.	STD.	STD.	STD.	STD.														
PROJECT NAME: WMLP		P.O. NUMBER:		<table border="1"> <tr><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td><1</td></tr> <tr><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td></tr> </table>		5	4	3	2	1	<1	STD.	STD.	STD.	STD.	STD.	STD.				
5	4	3	2	1	<1																
STD.	STD.	STD.	STD.	STD.	STD.																
PROJECT NUMBER:		PRESERVATIVE		OTHER: 240																	
SAMPLED BY: MATTHEW MCKIBBIN		REQUESTED ANALYSES		* Turnaround Requests, less than standard may incur Rush Charges.																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REFS	PH'S	NETPH'S	NETPH-D	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID												
1 Amazon Lor 34-16	5-7-09 / 12:30	X	X	X	X	S	4	Clean Fill	-01												
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
RELEASED BY: Matt Miller	DATE: 5-7-09	RECEIVED BY: Francisco Luns Jr	DATE: 5/7/09	FIRM: WAS	FIRM: TH-8EA	DATE: 5/7/09	TIME: 1545	DATE: 5/7/09	TIME: 1545												
PRINT NAME: MATTHEW MCKIBBIN	DATE: 1500	PRINT NAME: Francisco Luns Jr	DATE: 1500	FIRM: WAS	FIRM: TH-8EA	DATE: 5/7/09	TIME: 1545	DATE: 5/7/09	TIME: 1545												
PRINT NAME:	DATE:	PRINT NAME:	DATE:	FIRM:	FIRM:	DATE:	TIME:	DATE:	TIME:												
ADDITIONAL REMARKS:		TEMP: 5.9°C		FIRM: Quabrics w/o		PAGE: 5.9		OF: 5.9													

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 5/7/09 Date: 5/7 Date: 5/7 Date: _____ Work Order No. BSE0081
 Time: 1715 Time: 1725 Time: 1740 Time: _____ Client: _____
 Initials: FL Initials: TB Initials: TB Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ _____ Foam Packs
 _____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ Y or N or NA _____ UPS TA-Courier
 _____ None/Other _____ Initial/date/time _____ _____ DHL _____ Mid Valley
 _____ GS _____ Senvoy _____ TDP
 _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 5.9 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ ID _____ ID _____
 Intact? or N _____ Metals Preserved? Y or N or _____
 Provided by TA? or N _____ Client QAPP Preserved? Y or N or _____
 Correct Type? or N _____ Adequate Volume? or N _____
 (for tests requested)
 #Containers match COC? or N _____ Water VOAs: Headspace? Y or N or _____
 IDs/time/date match COC? Y or _____ Comments: _____
 Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

(rev 6, 04/22/09)

May 13, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 05/08/09 17:30.
The following list is a summary of the Work Orders contained in this report, generated on 05/13/09
17:17.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0094	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ICON-POS-1	BSE0094-01	Soil	05/08/09 09:00	05/08/09 17:30
ICON-POS-2	BSE0094-02	Soil	05/08/09 09:05	05/08/09 17:30
ICON-POS-3	BSE0094-03	Soil	05/08/09 09:10	05/08/09 17:30
ICON-POS-4	BSE0094-04	Soil	05/08/09 09:20	05/08/09 17:30
ICON-POS-5	BSE0094-05	Soil	05/08/09 09:25	05/08/09 17:30
ICON-POS-6	BSE0094-06	Soil	05/08/09 09:20	05/08/09 17:30
ICON-POS-7	BSE0094-07	Soil	05/08/09 09:35	05/08/09 17:30
ICON-POS-8	BSE0094-08	Soil	05/08/09 09:40	05/08/09 17:30

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/13/09 17:17
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-01 (ICON-POS-1)		Soil		Sampled: 05/08/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.64	mg/kg dry	1x	9E11004	05/11/09 06:37	05/11/09 09:51	
<i>Surrogate(s): 4-BFB (FID)</i>			98.6%		75 - 140 %	"				"
BSE0094-02 (ICON-POS-2)		Soil		Sampled: 05/08/09 09:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.65	mg/kg dry	1x	9E11004	05/11/09 06:37	05/11/09 10:24	
<i>Surrogate(s): 4-BFB (FID)</i>			97.1%		75 - 140 %	"				"
BSE0094-03 (ICON-POS-3)		Soil		Sampled: 05/08/09 09:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.51	mg/kg dry	1x	9E11004	05/11/09 06:37	05/11/09 10:57	
<i>Surrogate(s): 4-BFB (FID)</i>			97.2%		75 - 140 %	"				"
BSE0094-04 (ICON-POS-4)		Soil		Sampled: 05/08/09 09:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.15	mg/kg dry	1x	9E11004	05/11/09 06:37	05/11/09 11:30	
<i>Surrogate(s): 4-BFB (FID)</i>			94.6%		75 - 140 %	"				"
BSE0094-05 (ICON-POS-5)		Soil		Sampled: 05/08/09 09:25						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.88	mg/kg dry	1x	9E11004	05/11/09 06:37	05/11/09 12:03	
<i>Surrogate(s): 4-BFB (FID)</i>			94.9%		75 - 140 %	"				"
BSE0094-06 (ICON-POS-6)		Soil		Sampled: 05/08/09 09:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.10	mg/kg dry	1x	9E11004	05/11/09 06:37	05/11/09 15:21	
<i>Surrogate(s): 4-BFB (FID)</i>			95.3%		75 - 140 %	"				"
BSE0094-07 (ICON-POS-7)		Soil		Sampled: 05/08/09 09:35						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.45	mg/kg dry	1x	9E11004	05/11/09 06:37	05/11/09 15:54	
<i>Surrogate(s): 4-BFB (FID)</i>			97.3%		75 - 140 %	"				"
BSE0094-08 (ICON-POS-8)		Soil		Sampled: 05/08/09 09:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.89	mg/kg dry	1x	9E11004	05/11/09 06:37	05/11/09 16:27	
<i>Surrogate(s): 4-BFB (FID)</i>			95.6%		75 - 140 %	"				"

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Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-01 (ICON-POS-1)		Soil			Sampled: 05/08/09 09:00					
Lube Oil	NWTPH-Dx	615	----	137	mg/kg dry	5x	9E11028	05/11/09 12:22	05/11/09 22:33	
Kerosene	"	ND	----	55.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	55.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.4%		54 - 148 %	"				"
<i>Octacosane</i>			118%		62 - 142 %	"				"
BSE0094-02 (ICON-POS-2)		Soil			Sampled: 05/08/09 09:05					
Lube Oil	NWTPH-Dx	978	----	272	mg/kg dry	10x	9E11028	05/11/09 12:22	05/11/09 22:55	
Kerosene	"	ND	----	109	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	109	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.2%		54 - 148 %	"				"
<i>Octacosane</i>			131%		62 - 142 %	"				"
BSE0094-03 (ICON-POS-3)		Soil			Sampled: 05/08/09 09:10					
Lube Oil	NWTPH-Dx	188	----	26.8	mg/kg dry	1x	9E11028	05/11/09 12:22	05/11/09 23:18	
Kerosene	"	ND	----	10.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	24.2	----	10.7	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			93.5%		54 - 148 %	"				"
<i>Octacosane</i>			111%		62 - 142 %	"				"
BSE0094-04 (ICON-POS-4)		Soil			Sampled: 05/08/09 09:20					
Lube Oil	NWTPH-Dx	440	----	132	mg/kg dry	5x	9E11028	05/11/09 12:22	05/11/09 23:40	
Kerosene	"	ND	----	52.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	52.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			80.4%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"
BSE0094-05 (ICON-POS-5)		Soil			Sampled: 05/08/09 09:25					
Lube Oil	NWTPH-Dx	218	----	26.3	mg/kg dry	1x	9E11028	05/11/09 12:22	05/12/09 00:02	M2
Kerosene	"	ND	----	10.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	26.8	----	10.5	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			89.4%		54 - 148 %	"				"
<i>Octacosane</i>			108%		62 - 142 %	"				"

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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-06 (ICON-POS-6)		Soil			Sampled: 05/08/09 09:20					
Lube Oil	NWTPH-Dx	460	----	134	mg/kg dry	5x	9E11028	05/11/09 12:22	05/12/09 01:51	
Kerosene	"	ND	----	53.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	53.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.0%		54 - 148 %	"				"
<i>Octacosane</i>			117%		62 - 142 %	"				"
BSE0094-07 (ICON-POS-7)		Soil			Sampled: 05/08/09 09:35					
Lube Oil	NWTPH-Dx	73.2	----	27.2	mg/kg dry	1x	9E11028	05/11/09 12:22	05/12/09 02:13	
Kerosene	"	ND	----	10.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	10.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			87.8%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSE0094-08 (ICON-POS-8)		Soil			Sampled: 05/08/09 09:40					
Lube Oil	NWTPH-Dx	484	----	133	mg/kg dry	5x	9E11028	05/11/09 12:22	05/12/09 02:35	
Kerosene	"	ND	----	53.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	53.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.5%		54 - 148 %	"				"
<i>Octacosane</i>			117%		62 - 142 %	"				"

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Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-01 (ICON-POS-1)		Soil			Sampled: 05/08/09 09:00					
Arsenic	EPA 6020	2.87	----	0.335	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 08:16	
Barium	"	50.9	----	3.35	"	"	"	"	"	
Cadmium	"	ND	----	0.335	"	"	"	"	"	
Chromium	"	26.7	----	0.335	"	"	"	"	"	
Lead	"	3.28	----	0.335	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0969	"	"	9E13013	05/13/09 08:49	05/13/09 09:53	
Selenium	EPA 6020	ND	----	0.671	"	"	9E12002	05/12/09 05:25	05/12/09 08:16	
Silver	"	ND	----	0.335	"	"	"	"	"	
BSE0094-02 (ICON-POS-2)		Soil			Sampled: 05/08/09 09:05					
Arsenic	EPA 6020	2.95	----	0.409	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 09:25	
Barium	"	49.8	----	4.09	"	"	"	"	"	
Cadmium	"	ND	----	0.409	"	"	"	"	"	
Chromium	"	20.7	----	0.409	"	"	"	"	"	
Lead	"	4.79	----	0.409	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0987	"	"	9E13013	05/13/09 08:49	05/13/09 09:55	
Selenium	EPA 6020	ND	----	0.819	"	"	9E12002	05/12/09 05:25	05/12/09 09:25	
Silver	"	ND	----	0.409	"	"	"	"	"	
BSE0094-03 (ICON-POS-3)		Soil			Sampled: 05/08/09 09:10					
Arsenic	EPA 6020	2.65	----	0.377	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 09:31	
Barium	"	50.4	----	3.77	"	"	"	"	"	
Cadmium	"	ND	----	0.377	"	"	"	"	"	
Chromium	"	28.2	----	0.377	"	"	"	"	"	
Lead	"	2.68	----	0.377	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0932	"	"	9E13013	05/13/09 08:49	05/13/09 09:57	
Selenium	EPA 6020	ND	----	0.753	"	"	9E12002	05/12/09 05:25	05/12/09 09:31	
Silver	"	ND	----	0.377	"	"	"	"	"	
BSE0094-04 (ICON-POS-4)		Soil			Sampled: 05/08/09 09:20					
Arsenic	EPA 6020	2.94	----	0.351	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 09:37	
Barium	"	50.9	----	3.51	"	"	"	"	"	
Cadmium	"	ND	----	0.351	"	"	"	"	"	
Chromium	"	23.9	----	0.351	"	"	"	"	"	
Lead	"	3.23	----	0.351	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.100	"	"	9E13013	05/13/09 08:49	05/13/09 10:00	
Selenium	EPA 6020	ND	----	0.703	"	"	9E12002	05/12/09 05:25	05/12/09 09:37	
Silver	"	ND	----	0.351	"	"	"	"	"	

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Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Total Metals by EPA 6000/7000 Series Methods
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-05 (ICON-POS-5)		Soil			Sampled: 05/08/09 09:25					
Arsenic	EPA 6020	2.39	----	0.338	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 10:03	
Barium	"	44.9	----	3.38	"	"	"	"	"	
Cadmium	"	ND	----	0.338	"	"	"	"	"	
Chromium	"	21.0	----	0.338	"	"	"	"	"	
Lead	"	2.81	----	0.338	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0954	"	"	9E13013	05/13/09 08:49	05/13/09 10:08	
Selenium	EPA 6020	ND	----	0.675	"	"	9E12002	05/12/09 05:25	05/12/09 10:03	
Silver	"	ND	----	0.338	"	"	"	"	"	
BSE0094-06 (ICON-POS-6)		Soil			Sampled: 05/08/09 09:20					
Arsenic	EPA 6020	2.68	----	0.391	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 10:09	
Barium	"	49.6	----	3.91	"	"	"	"	"	
Cadmium	"	ND	----	0.391	"	"	"	"	"	
Chromium	"	25.4	----	0.391	"	"	"	"	"	
Lead	"	3.06	----	0.391	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0980	"	"	9E13013	05/13/09 08:49	05/13/09 10:10	
Selenium	EPA 6020	ND	----	0.783	"	"	9E12002	05/12/09 05:25	05/12/09 10:09	
Silver	"	ND	----	0.391	"	"	"	"	"	
BSE0094-07 (ICON-POS-7)		Soil			Sampled: 05/08/09 09:35					
Arsenic	EPA 6020	2.79	----	0.381	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 10:15	
Barium	"	47.0	----	3.81	"	"	"	"	"	
Cadmium	"	ND	----	0.381	"	"	"	"	"	
Chromium	"	22.1	----	0.381	"	"	"	"	"	
Lead	"	2.90	----	0.381	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.101	"	"	9E13013	05/13/09 08:49	05/13/09 10:13	
Selenium	EPA 6020	ND	----	0.761	"	"	9E12002	05/12/09 05:25	05/12/09 10:15	
Silver	"	ND	----	0.381	"	"	"	"	"	
BSE0094-08 (ICON-POS-8)		Soil			Sampled: 05/08/09 09:40					
Arsenic	EPA 6020	3.22	----	0.357	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 10:22	
Barium	"	52.1	----	3.57	"	"	"	"	"	
Cadmium	"	ND	----	0.357	"	"	"	"	"	
Chromium	"	20.5	----	0.357	"	"	"	"	"	
Lead	"	2.99	----	0.357	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0797	"	"	9E13013	05/13/09 08:49	05/13/09 10:15	
Selenium	EPA 6020	ND	----	0.713	"	"	9E12002	05/12/09 05:25	05/12/09 10:22	
Silver	"	ND	----	0.357	"	"	"	"	"	

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05/13/09 17:17

TCLP Metals by EPA 1311/6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-01 (ICON-POS-1)		Soil		Sampled: 05/08/09 09:00						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9E12039	05/12/09 20:50	05/13/09 12:48	
BSE0094-02 (ICON-POS-2)		Soil		Sampled: 05/08/09 09:05						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9E12039	05/12/09 20:50	05/13/09 10:31	
BSE0094-03 (ICON-POS-3)		Soil		Sampled: 05/08/09 09:10						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9E12039	05/12/09 20:50	05/13/09 10:35	
BSE0094-04 (ICON-POS-4)		Soil		Sampled: 05/08/09 09:20						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9E12039	05/12/09 20:50	05/13/09 10:49	
BSE0094-05 (ICON-POS-5)		Soil		Sampled: 05/08/09 09:25						
Lead	EPA 6010B	ND	----	1.00	mg/l	1x	9E12039	05/12/09 20:50	05/13/09 10:52	

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 05/13/09 17:17

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0094-01 (ICON-POS-1)		Soil			Sampled: 05/08/09 09:00					
Aroclor 1016	EPA 8082	ND	----	27.4	ug/kg dry	1x	9E11026	05/11/09 12:19	05/13/09 12:37	
Aroclor 1221	"	ND	----	54.8	"	"	"	"	"	
Aroclor 1232	"	ND	----	27.4	"	"	"	"	"	
Aroclor 1242	"	ND	----	27.4	"	"	"	"	"	
Aroclor 1248	"	ND	----	27.4	"	"	"	"	"	
Aroclor 1254	"	ND	----	27.4	"	"	"	"	"	
Aroclor 1260	"	ND	----	27.4	"	"	"	"	"	
Aroclor 1262	"	ND	----	27.4	"	"	"	"	"	
Aroclor 1268	"	ND	----	27.4	"	"	"	"	"	
Surrogate(s): TCX			109%	53 - 136 %		"				"
Decachlorobiphenyl			106%	35 - 150 %		"				"

BSE0094-02 (ICON-POS-2)		Soil			Sampled: 05/08/09 09:05					
Aroclor 1016	EPA 8082	ND	----	27.0	ug/kg dry	1x	9E11026	05/11/09 12:19	05/13/09 12:56	
Aroclor 1221	"	ND	----	54.1	"	"	"	"	"	
Aroclor 1232	"	ND	----	27.0	"	"	"	"	"	
Aroclor 1242	"	ND	----	27.0	"	"	"	"	"	
Aroclor 1248	"	ND	----	27.0	"	"	"	"	"	
Aroclor 1254	"	ND	----	27.0	"	"	"	"	"	
Aroclor 1260	"	ND	----	27.0	"	"	"	"	"	
Aroclor 1262	"	ND	----	27.0	"	"	"	"	"	
Aroclor 1268	"	ND	----	27.0	"	"	"	"	"	
Surrogate(s): TCX			108%	53 - 136 %		"				"
Decachlorobiphenyl			97.0%	35 - 150 %		"				"

BSE0094-03 (ICON-POS-3)		Soil			Sampled: 05/08/09 09:10					
Aroclor 1016	EPA 8082	ND	----	26.9	ug/kg dry	1x	9E11026	05/11/09 12:19	05/13/09 13:15	
Aroclor 1221	"	ND	----	53.9	"	"	"	"	"	
Aroclor 1232	"	ND	----	26.9	"	"	"	"	"	
Aroclor 1242	"	ND	----	26.9	"	"	"	"	"	
Aroclor 1248	"	ND	----	26.9	"	"	"	"	"	
Aroclor 1254	"	ND	----	26.9	"	"	"	"	"	
Aroclor 1260	"	ND	----	26.9	"	"	"	"	"	
Aroclor 1262	"	ND	----	26.9	"	"	"	"	"	
Aroclor 1268	"	ND	----	26.9	"	"	"	"	"	
Surrogate(s): TCX			111%	53 - 136 %		"				"
Decachlorobiphenyl			95.3%	35 - 150 %		"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-04 (ICON-POS-4)		Soil						Sampled: 05/08/09 09:20		
Aroclor 1016	EPA 8082	ND	----	26.4	ug/kg dry	1x	9E11026	05/11/09 12:19	05/13/09 13:34	
Aroclor 1221	"	ND	----	52.9	"	"	"	"	"	
Aroclor 1232	"	ND	----	26.4	"	"	"	"	"	
Aroclor 1242	"	ND	----	26.4	"	"	"	"	"	
Aroclor 1248	"	ND	----	26.4	"	"	"	"	"	
Aroclor 1254	"	ND	----	26.4	"	"	"	"	"	
Aroclor 1260	"	ND	----	26.4	"	"	"	"	"	
Aroclor 1262	"	ND	----	26.4	"	"	"	"	"	
Aroclor 1268	"	ND	----	26.4	"	"	"	"	"	

Surrogate(s): TCX 107% 53 - 136 % "

Decachlorobiphenyl 93.6% 35 - 150 % "

BSE0094-05 (ICON-POS-5)		Soil						Sampled: 05/08/09 09:25		
Aroclor 1016	EPA 8082	ND	----	26.6	ug/kg dry	1x	9E11026	05/11/09 12:19	05/13/09 13:53	
Aroclor 1221	"	ND	----	53.2	"	"	"	"	"	
Aroclor 1232	"	ND	----	26.6	"	"	"	"	"	
Aroclor 1242	"	ND	----	26.6	"	"	"	"	"	
Aroclor 1248	"	ND	----	26.6	"	"	"	"	"	
Aroclor 1254	"	ND	----	26.6	"	"	"	"	"	
Aroclor 1260	"	ND	----	26.6	"	"	"	"	"	
Aroclor 1262	"	ND	----	26.6	"	"	"	"	"	
Aroclor 1268	"	ND	----	26.6	"	"	"	"	"	

Surrogate(s): TCX 111% 53 - 136 % "

Decachlorobiphenyl 92.3% 35 - 150 % "

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-01 (ICON-POS-1)										
		Soil					Sampled: 05/08/09 09:00			
Acetone	EPA 8260B	ND	----	24.1	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 21:24	
Benzene	"	ND	----	0.904	"	"	"	"	"	
Bromobenzene	"	ND	----	3.01	"	"	"	"	"	
Bromochloromethane	"	ND	----	3.01	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.01	"	"	"	"	"	
Bromoform	"	ND	----	3.01	"	"	"	"	"	
Bromomethane	"	ND	----	6.03	"	"	"	"	"	
2-Butanone	"	ND	----	18.1	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.01	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	3.01	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	3.01	"	"	"	"	"	
Carbon disulfide	"	ND	----	1.81	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.01	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.21	"	"	"	"	"	
Chloroethane	"	ND	----	3.01	"	"	"	"	"	
Chloroform	"	ND	----	1.51	"	"	"	"	"	
Chloromethane	"	ND	----	6.03	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.01	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	3.01	"	"	"	"	"	
Dibromochloromethane	"	ND	----	3.01	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	6.03	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	3.01	"	"	"	"	"	
Dibromomethane	"	ND	----	3.01	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.01	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	3.01	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	3.01	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	3.01	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.21	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.754	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.81	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.81	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.51	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.01	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.01	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	6.03	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.01	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.01	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.754	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.41	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	6.03	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.603	"	"	"	"	"	
n-Hexane	"	ND	----	3.01	"	"	"	"	"	
2-Hexanone	"	ND	----	18.1	"	"	"	"	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0094-01 (ICON-POS-1)

Soil

Sampled: 05/08/09 09:00

Isopropylbenzene	EPA 8260B	ND	----	3.01	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 21:24	
p-Isopropyltoluene	"	ND	----	3.01	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	18.1	"	"	"	"	"	
Methylene chloride	"	ND	----	7.23	"	"	"	"	"	
Naphthalene	"	ND	----	6.03	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.01	"	"	"	"	"	
Styrene	"	ND	----	1.51	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	6.03	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	6.03	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.01	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.01	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.21	"	"	"	"	"	
Toluene	"	ND	----	0.904	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.51	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.21	"	"	"	"	"	
Trichloroethene	"	ND	----	1.51	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.01	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.01	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.01	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.01	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.51	"	"	"	"	"	
o-Xylene	"	ND	----	3.01	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.01	"	"	"	"	"	
Total Xylenes	"	ND	----	6.03	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	127%	70 - 140 %	"	"
	Toluene-d8	94.0%	70 - 130 %	"	"
	4-BFB	114%	70 - 130 %	"	"

BSE0094-02 (ICON-POS-2)

Soil

Sampled: 05/08/09 09:05

Acetone	EPA 8260B	ND	----	24.2	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 21:50	
Benzene	"	ND	----	0.906	"	"	"	"	"	
Bromobenzene	"	ND	----	3.02	"	"	"	"	"	12
Bromochloromethane	"	ND	----	3.02	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.02	"	"	"	"	"	
Bromoform	"	ND	----	3.02	"	"	"	"	"	12
Bromomethane	"	ND	----	6.04	"	"	"	"	"	
2-Butanone	"	ND	----	18.1	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.02	"	"	"	"	"	12
sec-Butylbenzene	"	ND	----	3.02	"	"	"	"	"	12
tert-Butylbenzene	"	ND	----	3.02	"	"	"	"	"	12
Carbon disulfide	"	ND	----	1.81	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.02	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-02 (ICON-POS-2)										
		Soil					Sampled: 05/08/09 09:05			
Chlorobenzene	EPA 8260B	ND	----	1.21	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 21:50	12
Chloroethane	"	ND	----	3.02	"	"	"	"	"	
Chloroform	"	ND	----	1.51	"	"	"	"	"	
Chloromethane	"	ND	----	6.04	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.02	"	"	"	"	"	12
4-Chlorotoluene	"	ND	----	3.02	"	"	"	"	"	12
Dibromochloromethane	"	ND	----	3.02	"	"	"	"	"	12
1,2-Dibromo-3-chloropropane	"	ND	----	6.04	"	"	"	"	"	12
1,2-Dibromoethane (EDB)	"	ND	----	3.02	"	"	"	"	"	12
Dibromomethane	"	ND	----	3.02	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.02	"	"	"	"	"	12
1,3-Dichlorobenzene	"	ND	----	3.02	"	"	"	"	"	12
1,4-Dichlorobenzene	"	ND	----	3.02	"	"	"	"	"	12
Dichlorodifluoromethane	"	ND	----	3.02	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.21	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.755	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.81	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.81	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.51	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.02	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.02	"	"	"	"	"	12
2,2-Dichloropropane	"	ND	----	6.04	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.02	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.02	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.755	"	"	"	"	"	12
Ethylbenzene	"	ND	----	2.42	"	"	"	"	"	12
Hexachlorobutadiene	"	ND	----	6.04	"	"	"	"	"	12
Methyl tert-butyl ether	"	ND	----	0.604	"	"	"	"	"	
n-Hexane	"	ND	----	3.02	"	"	"	"	"	
2-Hexanone	"	ND	----	18.1	"	"	"	"	"	12
Isopropylbenzene	"	ND	----	3.02	"	"	"	"	"	12
p-Isopropyltoluene	"	ND	----	3.02	"	"	"	"	"	12
4-Methyl-2-pentanone	"	ND	----	18.1	"	"	"	"	"	
Methylene chloride	"	ND	----	7.25	"	"	"	"	"	
Naphthalene	"	ND	----	6.04	"	"	"	"	"	12
n-Propylbenzene	"	ND	----	3.02	"	"	"	"	"	12
Styrene	"	ND	----	1.51	"	"	"	"	"	12
1,2,3-Trichlorobenzene	"	ND	----	6.04	"	"	"	"	"	12
1,2,4-Trichlorobenzene	"	ND	----	6.04	"	"	"	"	"	12
1,1,1,2-Tetrachloroethane	"	ND	----	3.02	"	"	"	"	"	12
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.02	"	"	"	"	"	12
Tetrachloroethene	"	ND	----	1.21	"	"	"	"	"	
Toluene	"	ND	----	0.906	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-02 (ICON-POS-2)		Soil		Sampled: 05/08/09 09:10						
1,1,1-Trichloroethane	EPA 8260B	ND	----	1.51	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 21:50	
1,1,2-Trichloroethane	"	ND	----	1.21	"	"	"	"	"	I2
Trichloroethene	"	ND	----	1.51	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.02	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.02	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.02	"	"	"	"	"	I2
1,3,5-Trimethylbenzene	"	ND	----	3.02	"	"	"	"	"	I2
Vinyl chloride	"	ND	----	1.51	"	"	"	"	"	
o-Xylene	"	ND	----	3.02	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	3.02	"	"	"	"	"	I2
Total Xylenes	"	ND	----	6.04	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>140%</i>		<i>70 - 140 %</i>					
<i>Toluene-d8</i>			<i>94.2%</i>		<i>70 - 130 %</i>					<i>I2</i>
<i>4-BFB</i>			<i>109%</i>		<i>70 - 130 %</i>					<i>I2</i>

BSE0094-03 (ICON-POS-3)		Soil		Sampled: 05/08/09 09:10						
Acetone	EPA 8260B	ND	----	26.0	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 22:15	
Benzene	"	ND	----	0.975	"	"	"	"	"	
Bromobenzene	"	ND	----	3.25	"	"	"	"	"	
Bromochloromethane	"	ND	----	3.25	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.25	"	"	"	"	"	
Bromoform	"	ND	----	3.25	"	"	"	"	"	
Bromomethane	"	ND	----	6.50	"	"	"	"	"	
2-Butanone	"	ND	----	19.5	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.25	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	3.25	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	3.25	"	"	"	"	"	
Carbon disulfide	"	ND	----	1.95	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.25	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.30	"	"	"	"	"	
Chloroethane	"	ND	----	3.25	"	"	"	"	"	
Chloroform	"	ND	----	1.62	"	"	"	"	"	
Chloromethane	"	ND	----	6.50	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.25	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	3.25	"	"	"	"	"	
Dibromochloromethane	"	ND	----	3.25	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	6.50	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	3.25	"	"	"	"	"	
Dibromomethane	"	ND	----	3.25	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.25	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	3.25	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	3.25	"	"	"	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-03 (ICON-POS-3)		Soil		Sampled: 05/08/09 09:10						
Dichlorodifluoromethane	EPA 8260B	ND	----	3.25	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 22:15	
1,1-Dichloroethane	"	ND	----	1.30	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.812	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.95	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.95	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.62	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.25	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.25	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	6.50	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.25	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.25	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.812	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.60	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	6.50	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.650	"	"	"	"	"	
n-Hexane	"	ND	----	3.25	"	"	"	"	"	
2-Hexanone	"	ND	----	19.5	"	"	"	"	"	
Isopropylbenzene	"	ND	----	3.25	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	3.25	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	19.5	"	"	"	"	"	
Methylene chloride	"	ND	----	7.80	"	"	"	"	"	
Naphthalene	"	ND	----	6.50	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.25	"	"	"	"	"	
Styrene	"	ND	----	1.62	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	6.50	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	6.50	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.25	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.25	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.30	"	"	"	"	"	
Toluene	"	ND	----	0.975	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.62	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.30	"	"	"	"	"	
Trichloroethene	"	ND	----	1.62	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.25	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.25	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.25	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.25	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.62	"	"	"	"	"	
o-Xylene	"	ND	----	3.25	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.25	"	"	"	"	"	
Total Xylenes	"	ND	----	6.50	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				135%		70 - 140 %	"			"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-03 (ICON-POS-3)		Soil		Sampled: 05/08/09 09:10						
	<i>Toluene-d8</i>		92.0%		70 - 130 %	1x			05/08/09 22:15	
	<i>4-BFB</i>		105%		70 - 130 %	"			"	
BSE0094-04 (ICON-POS-4)		Soil		Sampled: 05/08/09 09:20						
Acetone	EPA 8260B	ND	----	23.5	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 22:40	12
Benzene	"	ND	----	0.882	"	"	"	"	"	12
Bromobenzene	"	ND	----	2.94	"	"	"	"	"	12
Bromochloromethane	"	ND	----	2.94	"	"	"	"	"	12
Bromodichloromethane	"	ND	----	2.94	"	"	"	"	"	12
Bromoform	"	ND	----	2.94	"	"	"	"	"	12
Bromomethane	"	ND	----	5.88	"	"	"	"	"	12
2-Butanone	"	ND	----	17.6	"	"	"	"	"	12
n-Butylbenzene	"	ND	----	2.94	"	"	"	"	"	12
sec-Butylbenzene	"	ND	----	2.94	"	"	"	"	"	12
tert-Butylbenzene	"	ND	----	2.94	"	"	"	"	"	12
Carbon disulfide	"	ND	----	1.76	"	"	"	"	"	12
Carbon tetrachloride	"	ND	----	2.94	"	"	"	"	"	12
Chlorobenzene	"	ND	----	1.18	"	"	"	"	"	12
Chloroethane	"	ND	----	2.94	"	"	"	"	"	12
Chloroform	"	ND	----	1.47	"	"	"	"	"	12
Chloromethane	"	ND	----	5.88	"	"	"	"	"	12
2-Chlorotoluene	"	ND	----	2.94	"	"	"	"	"	12
4-Chlorotoluene	"	ND	----	2.94	"	"	"	"	"	12
Dibromochloromethane	"	ND	----	2.94	"	"	"	"	"	12
1,2-Dibromo-3-chloropropane	"	ND	----	5.88	"	"	"	"	"	12
1,2-Dibromoethane (EDB)	"	ND	----	2.94	"	"	"	"	"	12
Dibromomethane	"	ND	----	2.94	"	"	"	"	"	12
1,2-Dichlorobenzene	"	ND	----	2.94	"	"	"	"	"	12
1,3-Dichlorobenzene	"	ND	----	2.94	"	"	"	"	"	12
1,4-Dichlorobenzene	"	ND	----	2.94	"	"	"	"	"	12
Dichlorodifluoromethane	"	ND	----	2.94	"	"	"	"	"	12
1,1-Dichloroethane	"	ND	----	1.18	"	"	"	"	"	12
1,2-Dichloroethane	"	ND	----	0.735	"	"	"	"	"	12
1,1-Dichloroethene	"	ND	----	1.76	"	"	"	"	"	12
cis-1,2-Dichloroethene	"	ND	----	1.76	"	"	"	"	"	12
trans-1,2-Dichloroethene	"	ND	----	1.47	"	"	"	"	"	12
1,2-Dichloropropane	"	ND	----	2.94	"	"	"	"	"	12
1,3-Dichloropropane	"	ND	----	2.94	"	"	"	"	"	12
2,2-Dichloropropane	"	ND	----	5.88	"	"	"	"	"	12
1,1-Dichloropropene	"	ND	----	2.94	"	"	"	"	"	12
cis-1,3-Dichloropropene	"	ND	----	2.94	"	"	"	"	"	12
trans-1,3-Dichloropropene	"	ND	----	0.735	"	"	"	"	"	12

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-04 (ICON-POS-4)		Soil		Sampled: 05/08/09 09:20						
Ethylbenzene	EPA 8260B	ND	----	2.35	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 22:40	I2
Hexachlorobutadiene	"	ND	----	5.88	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.588	"	"	"	"	"	I2
n-Hexane	"	ND	----	2.94	"	"	"	"	"	I2
2-Hexanone	"	ND	----	17.6	"	"	"	"	"	I2
Isopropylbenzene	"	ND	----	2.94	"	"	"	"	"	I2
p-Isopropyltoluene	"	ND	----	2.94	"	"	"	"	"	I2
4-Methyl-2-pentanone	"	ND	----	17.6	"	"	"	"	"	I2
Methylene chloride	"	ND	----	7.06	"	"	"	"	"	I2
Naphthalene	"	ND	----	5.88	"	"	"	"	"	I2
n-Propylbenzene	"	ND	----	2.94	"	"	"	"	"	I2
Styrene	"	ND	----	1.47	"	"	"	"	"	I2
1,2,3-Trichlorobenzene	"	ND	----	5.88	"	"	"	"	"	I2
1,2,4-Trichlorobenzene	"	ND	----	5.88	"	"	"	"	"	I2
1,1,1,2-Tetrachloroethane	"	ND	----	2.94	"	"	"	"	"	I2
1,1,2,2-Tetrachloroethane	"	ND	----	2.94	"	"	"	"	"	I2
Tetrachloroethene	"	ND	----	1.18	"	"	"	"	"	I2
Toluene	"	ND	----	0.882	"	"	"	"	"	I2
1,1,1-Trichloroethane	"	ND	----	1.47	"	"	"	"	"	I2
1,1,2-Trichloroethane	"	ND	----	1.18	"	"	"	"	"	I2
Trichloroethene	"	ND	----	1.47	"	"	"	"	"	I2
Trichlorofluoromethane	"	ND	----	2.94	"	"	"	"	"	I2
1,2,3-Trichloropropane	"	ND	----	2.94	"	"	"	"	"	I2
1,2,4-Trimethylbenzene	"	ND	----	2.94	"	"	"	"	"	I2
1,3,5-Trimethylbenzene	"	ND	----	2.94	"	"	"	"	"	I2
Vinyl chloride	"	ND	----	1.47	"	"	"	"	"	I2
o-Xylene	"	ND	----	2.94	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	2.94	"	"	"	"	"	I2
Total Xylenes	"	ND	----	5.88	"	"	"	"	"	I2
Surrogate(s):	1,2-DCA-d4		125%		70 - 140 %	"			"	I2
	Toluene-d8		95.9%		70 - 130 %	"			"	I2
	4-BFB		103%		70 - 130 %	"			"	I2

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0094-05 (ICON-POS-5)

Soil

Sampled: 05/08/09 09:25

Isopropylbenzene	EPA 8260B	ND	----	2.85	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 23:06	
p-Isopropyltoluene	"	ND	----	2.85	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	17.1	"	"	"	"	"	
Methylene chloride	"	ND	----	6.85	"	"	"	"	"	
Naphthalene	"	ND	----	5.71	"	"	"	"	"	
n-Propylbenzene	"	ND	----	2.85	"	"	"	"	"	
Styrene	"	ND	----	1.43	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	5.71	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	5.71	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	2.85	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	2.85	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.14	"	"	"	"	"	
Toluene	"	ND	----	0.856	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.43	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.14	"	"	"	"	"	
Trichloroethene	"	ND	----	1.43	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	2.85	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	2.85	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	2.85	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	2.85	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.43	"	"	"	"	"	
o-Xylene	"	ND	----	2.85	"	"	"	"	"	
m,p-Xylene	"	ND	----	2.85	"	"	"	"	"	
Total Xylenes	"	ND	----	5.71	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	136%		70 - 140 %	"					
	Toluene-d8	91.5%		70 - 130 %	"					
	4-BFB	108%		70 - 130 %	"					

BSE0094-06 (ICON-POS-6)

Soil

Sampled: 05/08/09 09:20

Acetone	EPA 8260B	ND	----	25.3	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 23:31	
Benzene	"	ND	----	0.950	"	"	"	"	"	
Bromobenzene	"	ND	----	3.17	"	"	"	"	"	
Bromochloromethane	"	ND	----	3.17	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.17	"	"	"	"	"	
Bromoform	"	ND	----	3.17	"	"	"	"	"	
Bromomethane	"	ND	----	6.33	"	"	"	"	"	
2-Butanone	"	ND	----	19.0	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.17	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	3.17	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	3.17	"	"	"	"	"	
Carbon disulfide	"	ND	----	1.90	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.17	"	"	"	"	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-06 (ICON-POS-6)										
		Soil					Sampled: 05/08/09 09:20			
Chlorobenzene	EPA 8260B	ND	----	1.27	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 23:31	
Chloroethane	"	ND	----	3.17	"	"	"	"	"	
Chloroform	"	ND	----	1.58	"	"	"	"	"	
Chloromethane	"	ND	----	6.33	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.17	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	3.17	"	"	"	"	"	
Dibromochloromethane	"	ND	----	3.17	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	6.33	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	3.17	"	"	"	"	"	
Dibromomethane	"	ND	----	3.17	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.17	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	3.17	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	3.17	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	3.17	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.27	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.792	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.90	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.90	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.58	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.17	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.17	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	6.33	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.17	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.17	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.792	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.53	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	6.33	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.633	"	"	"	"	"	
n-Hexane	"	ND	----	3.17	"	"	"	"	"	
2-Hexanone	"	ND	----	19.0	"	"	"	"	"	
Isopropylbenzene	"	ND	----	3.17	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	3.17	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	19.0	"	"	"	"	"	
Methylene chloride	"	ND	----	7.60	"	"	"	"	"	
Naphthalene	"	ND	----	6.33	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.17	"	"	"	"	"	
Styrene	"	ND	----	1.58	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	6.33	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	6.33	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.17	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.17	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.27	"	"	"	"	"	
Toluene	"	ND	----	0.950	"	"	"	"	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-06 (ICON-POS-6)		Soil		Sampled: 05/08/09 09:20						
1,1,1-Trichloroethane	EPA 8260B	ND	----	1.58	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 23:31	
1,1,2-Trichloroethane	"	ND	----	1.27	"	"	"	"	"	"
Trichloroethene	"	ND	----	1.58	"	"	"	"	"	"
Trichlorofluoromethane	"	ND	----	3.17	"	"	"	"	"	"
1,2,3-Trichloropropane	"	ND	----	3.17	"	"	"	"	"	"
1,2,4-Trimethylbenzene	"	ND	----	3.17	"	"	"	"	"	"
1,3,5-Trimethylbenzene	"	ND	----	3.17	"	"	"	"	"	"
Vinyl chloride	"	ND	----	1.58	"	"	"	"	"	"
o-Xylene	"	ND	----	3.17	"	"	"	"	"	"
m,p-Xylene	"	ND	----	3.17	"	"	"	"	"	"
Total Xylenes	"	ND	----	6.33	"	"	"	"	"	"

Surrogate(s): 1,2-DCA-d4 134% 70 - 140 % "
 Toluene-d8 96.4% 70 - 130 % "
 4-BFB 121% 70 - 130 % "

BSE0094-07 (ICON-POS-7)		Soil		Sampled: 05/08/09 09:35						
Acetone	EPA 8260B	ND	----	24.2	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 23:57	
Benzene	"	ND	----	0.909	"	"	"	"	"	"
Bromobenzene	"	ND	----	3.03	"	"	"	"	"	"
Bromochloromethane	"	ND	----	3.03	"	"	"	"	"	"
Bromodichloromethane	"	ND	----	3.03	"	"	"	"	"	"
Bromoform	"	ND	----	3.03	"	"	"	"	"	"
Bromomethane	"	ND	----	6.06	"	"	"	"	"	"
2-Butanone	"	ND	----	18.2	"	"	"	"	"	"
n-Butylbenzene	"	ND	----	3.03	"	"	"	"	"	"
sec-Butylbenzene	"	ND	----	3.03	"	"	"	"	"	"
tert-Butylbenzene	"	ND	----	3.03	"	"	"	"	"	"
Carbon disulfide	"	ND	----	1.82	"	"	"	"	"	"
Carbon tetrachloride	"	ND	----	3.03	"	"	"	"	"	"
Chlorobenzene	"	ND	----	1.21	"	"	"	"	"	"
Chloroethane	"	ND	----	3.03	"	"	"	"	"	"
Chloroform	"	ND	----	1.52	"	"	"	"	"	"
Chloromethane	"	ND	----	6.06	"	"	"	"	"	"
2-Chlorotoluene	"	ND	----	3.03	"	"	"	"	"	"
4-Chlorotoluene	"	ND	----	3.03	"	"	"	"	"	"
Dibromochloromethane	"	ND	----	3.03	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	"	ND	----	6.06	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND	----	3.03	"	"	"	"	"	"
Dibromomethane	"	ND	----	3.03	"	"	"	"	"	"
1,2-Dichlorobenzene	"	ND	----	3.03	"	"	"	"	"	"
1,3-Dichlorobenzene	"	ND	----	3.03	"	"	"	"	"	"
1,4-Dichlorobenzene	"	ND	----	3.03	"	"	"	"	"	"

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Curtis D. Armstrong For Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-07 (ICON-POS-7)		Soil		Sampled: 05/08/09 09:35						
Dichlorodifluoromethane	EPA 8260B	ND	----	3.03	ug/kg dry	1x	9E08027	05/08/09 16:16	05/08/09 23:57	
1,1-Dichloroethane	"	ND	----	1.21	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.758	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.82	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.82	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.52	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.03	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.03	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	6.06	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.03	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.03	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.758	"	"	"	"	"	
Ethylbenzene	"	ND	----	2.42	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	6.06	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.606	"	"	"	"	"	
n-Hexane	"	ND	----	3.03	"	"	"	"	"	
2-Hexanone	"	ND	----	18.2	"	"	"	"	"	
Isopropylbenzene	"	ND	----	3.03	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	3.03	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	18.2	"	"	"	"	"	
Methylene chloride	"	ND	----	7.27	"	"	"	"	"	
Naphthalene	"	ND	----	6.06	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.03	"	"	"	"	"	
Styrene	"	ND	----	1.52	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	6.06	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	6.06	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.03	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.03	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.21	"	"	"	"	"	
Toluene	"	ND	----	0.909	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.52	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.21	"	"	"	"	"	
Trichloroethene	"	ND	----	1.52	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.03	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.03	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.03	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.03	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.52	"	"	"	"	"	
o-Xylene	"	ND	----	3.03	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.03	"	"	"	"	"	
Total Xylenes	"	ND	----	6.06	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				138%		70 - 140 %	"			"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0094-07 (ICON-POS-7)

Soil

Sampled: 05/08/09 09:35

Toluene-d8		91.8%		70 - 130 %		1x			05/08/09 23:57	
4-BFB		105%		70 - 130 %		"			"	

BSE0094-08 (ICON-POS-8)

Soil

Sampled: 05/08/09 09:40

Acetone	EPA 8260B	ND	----	24.2	ug/kg dry	1x	9E08027	05/08/09 16:16	05/09/09 00:22	
Benzene	"	ND	----	0.909	"	"	"	"	"	
Bromobenzene	"	ND	----	3.03	"	"	"	"	"	
Bromochloromethane	"	ND	----	3.03	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.03	"	"	"	"	"	
Bromoform	"	ND	----	3.03	"	"	"	"	"	
Bromomethane	"	ND	----	6.06	"	"	"	"	"	
2-Butanone	"	ND	----	18.2	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.03	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	3.03	"	"	"	"	"	
tert-Butylbenzene	"	ND	----	3.03	"	"	"	"	"	
Carbon disulfide	"	ND	----	1.82	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.03	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.21	"	"	"	"	"	
Chloroethane	"	ND	----	3.03	"	"	"	"	"	
Chloroform	"	ND	----	1.51	"	"	"	"	"	
Chloromethane	"	ND	----	6.06	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.03	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	3.03	"	"	"	"	"	
Dibromochloromethane	"	ND	----	3.03	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	"	ND	----	6.06	"	"	"	"	"	
1,2-Dibromoethane (EDB)	"	ND	----	3.03	"	"	"	"	"	
Dibromomethane	"	ND	----	3.03	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.03	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	3.03	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	3.03	"	"	"	"	"	
Dichlorodifluoromethane	"	ND	----	3.03	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.21	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.757	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	1.82	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.82	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.51	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.03	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.03	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	6.06	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.03	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.03	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.757	"	"	"	"	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-08 (ICON-POS-8)		Soil		Sampled: 05/08/09 09:40						
Ethylbenzene	EPA 8260B	ND	----	2.42	ug/kg dry	1x	9E08027	05/08/09 16:16	05/09/09 00:22	
Hexachlorobutadiene	"	ND	----	6.06	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.606	"	"	"	"	"	
n-Hexane	"	ND	----	3.03	"	"	"	"	"	
2-Hexanone	"	ND	----	18.2	"	"	"	"	"	
Isopropylbenzene	"	ND	----	3.03	"	"	"	"	"	
p-Isopropyltoluene	"	ND	----	3.03	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	18.2	"	"	"	"	"	
Methylene chloride	"	ND	----	7.27	"	"	"	"	"	
Naphthalene	"	ND	----	6.06	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.03	"	"	"	"	"	
Styrene	"	ND	----	1.51	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	6.06	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	6.06	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.03	"	"	"	"	"	
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.03	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.21	"	"	"	"	"	
Toluene	"	ND	----	0.909	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	1.51	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.21	"	"	"	"	"	
Trichloroethene	"	ND	----	1.51	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.03	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.03	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.03	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.03	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.51	"	"	"	"	"	
o-Xylene	"	ND	----	3.03	"	"	"	"	"	
m,p-Xylene	"	ND	----	3.03	"	"	"	"	"	
Total Xylenes	"	ND	----	6.06	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4
 Toluene-d8
 4-BFB

131% 70 - 140 %
 94.7% 70 - 130 %
 114% 70 - 130 %

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Curtis D. Armstrong For Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-01 (ICON-POS-1)		Soil		Sampled: 05/08/09 09:00						
Acenaphthene	8270C-SIM	ND	----	0.0110	mg/kg dry	1x	9E11027	05/11/09 12:21	05/12/09 14:51	
Acenaphthylene	"	ND	----	0.0110	"	"	"	"	"	
Anthracene	"	ND	----	0.0110	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0110	"	"	"	"	"	
Benzo (a) pyrene	"	0.0117	----	0.0110	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0110	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0110	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0110	"	"	"	"	"	
Chrysene	"	0.0358	----	0.0110	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0110	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0110	"	"	"	"	"	
Fluorene	"	ND	----	0.0110	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0110	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0110	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0110	"	"	"	"	"	
Naphthalene	"	ND	----	0.0110	"	"	"	"	"	
Phenanthrene	"	0.0150	----	0.0110	"	"	"	"	"	
Pyrene	"	0.0143	----	0.0110	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			75.4%		46 - 125 %	"				"

BSE0094-02 (ICON-POS-2)		Soil		Sampled: 05/08/09 09:05						
Acenaphthene	8270C-SIM	ND	----	0.0107	mg/kg dry	1x	9E11027	05/11/09 12:21	05/12/09 15:24	
Acenaphthylene	"	ND	----	0.0107	"	"	"	"	"	
Anthracene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (a) anthracene	"	0.0116	----	0.0107	"	"	"	"	"	
Benzo (a) pyrene	"	0.0136	----	0.0107	"	"	"	"	"	
Benzo (b) fluoranthene	"	0.0144	----	0.0107	"	"	"	"	"	
Benzo (k) fluoranthene	"	0.0138	----	0.0107	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0107	"	"	"	"	"	
Chrysene	"	0.0363	----	0.0107	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0107	"	"	"	"	"	
Fluoranthene	"	0.0154	----	0.0107	"	"	"	"	"	
Fluorene	"	ND	----	0.0107	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0107	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	
Naphthalene	"	ND	----	0.0107	"	"	"	"	"	
Phenanthrene	"	0.0153	----	0.0107	"	"	"	"	"	
Pyrene	"	0.0179	----	0.0107	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			92.7%		46 - 125 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-03 (ICON-POS-3)		Soil								
		Sampled: 05/08/09 09:10								
Acenaphthene	8270C-SIM	ND	----	0.0108	mg/kg dry	1x	9E11027	05/11/09 12:21	05/12/09 15:58	
Acenaphthylene	"	ND	----	0.0108	"	"	"	"	"	
Anthracene	"	ND	----	0.0108	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0108	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0108	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0108	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0108	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0108	"	"	"	"	"	
Chrysene	"	0.0116	----	0.0108	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0108	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0108	"	"	"	"	"	
Fluorene	"	ND	----	0.0108	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0108	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0108	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0108	"	"	"	"	"	
Naphthalene	"	ND	----	0.0108	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0108	"	"	"	"	"	
Pyrene	"	ND	----	0.0108	"	"	"	"	"	

Surrogate(s): *p-Terphenyl-d14*

87.9%

46 - 125 %

"

"

BSE0094-04 (ICON-POS-4)		Soil								
		Sampled: 05/08/09 09:20								
Acenaphthene	8270C-SIM	ND	----	0.0105	mg/kg dry	1x	9E11027	05/11/09 12:21	05/12/09 16:31	
Acenaphthylene	"	ND	----	0.0105	"	"	"	"	"	
Anthracene	"	ND	----	0.0105	"	"	"	"	"	
Benzo (a) anthracene	"	0.0120	----	0.0105	"	"	"	"	"	
Benzo (a) pyrene	"	0.0111	----	0.0105	"	"	"	"	"	
Benzo (b) fluoranthene	"	0.0137	----	0.0105	"	"	"	"	"	
Benzo (k) fluoranthene	"	0.0132	----	0.0105	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0105	"	"	"	"	"	
Chrysene	"	0.0347	----	0.0105	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0105	"	"	"	"	"	
Fluoranthene	"	0.0174	----	0.0105	"	"	"	"	"	
Fluorene	"	ND	----	0.0105	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0105	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0105	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0105	"	"	"	"	"	
Naphthalene	"	ND	----	0.0105	"	"	"	"	"	
Phenanthrene	"	0.0150	----	0.0105	"	"	"	"	"	
Pyrene	"	0.0207	----	0.0105	"	"	"	"	"	

Surrogate(s): *p-Terphenyl-d14*

89.8%

46 - 125 %

"

"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-05 (ICON-POS-5)		Soil		Sampled: 05/08/09 09:25						
Acenaphthene	8270C-SIM	ND	----	0.0106	mg/kg dry	1x	9E11027	05/11/09 12:21	05/12/09 17:04	
Acenaphthylene	"	ND	----	0.0106	"	"	"	"	"	
Anthracene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0106	"	"	"	"	"	
Chrysene	"	ND	----	0.0106	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0106	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0106	"	"	"	"	"	
Fluorene	"	ND	----	0.0106	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0106	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	
Naphthalene	"	ND	----	0.0106	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0106	"	"	"	"	"	
Pyrene	"	ND	----	0.0106	"	"	"	"	"	

Surrogate(s): *p-Terphenyl-d14*

89.5%

46 - 125 %

"

"

BSE0094-06 (ICON-POS-6)		Soil		Sampled: 05/08/09 09:20						
Acenaphthene	8270C-SIM	ND	----	0.0106	mg/kg dry	1x	9E11027	05/11/09 12:21	05/12/09 17:37	
Acenaphthylene	"	ND	----	0.0106	"	"	"	"	"	
Anthracene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (a) anthracene	"	0.0145	----	0.0106	"	"	"	"	"	
Benzo (a) pyrene	"	0.0110	----	0.0106	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0106	"	"	"	"	"	
Chrysene	"	0.0358	----	0.0106	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0106	"	"	"	"	"	
Fluoranthene	"	0.0132	----	0.0106	"	"	"	"	"	
Fluorene	"	ND	----	0.0106	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0106	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	
Naphthalene	"	ND	----	0.0106	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0106	"	"	"	"	"	
Pyrene	"	0.0166	----	0.0106	"	"	"	"	"	

Surrogate(s): *p-Terphenyl-d14*

88.8%

46 - 125 %

"

"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-07 (ICON-POS-7)			Soil		Sampled: 05/08/09 09:35					
Acenaphthene	8270C-SIM	ND	----	0.0108	mg/kg dry	1x	9E11027	05/11/09 12:21	05/12/09 18:10	
Acenaphthylene	"	ND	----	0.0108	"	"	"	"	"	
Anthracene	"	ND	----	0.0108	"	"	"	"	"	
Benzo (a) anthracene	"	0.0149	----	0.0108	"	"	"	"	"	
Benzo (a) pyrene	"	0.0139	----	0.0108	"	"	"	"	"	
Benzo (b) fluoranthene	"	0.0125	----	0.0108	"	"	"	"	"	
Benzo (k) fluoranthene	"	0.0121	----	0.0108	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0108	"	"	"	"	"	
Chrysene	"	0.0198	----	0.0108	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0108	"	"	"	"	"	
Fluoranthene	"	0.0371	----	0.0108	"	"	"	"	"	
Fluorene	"	ND	----	0.0108	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0108	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0108	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0108	"	"	"	"	"	
Naphthalene	"	ND	----	0.0108	"	"	"	"	"	
Phenanthrene	"	0.0205	----	0.0108	"	"	"	"	"	
Pyrene	"	0.0296	----	0.0108	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			95.1%		46 - 125 %	"				"

BSE0094-08 (ICON-POS-8)			Soil		Sampled: 05/08/09 09:40					
Acenaphthene	8270C-SIM	ND	----	0.0107	mg/kg dry	1x	9E11027	05/11/09 12:21	05/12/09 18:44	
Acenaphthylene	"	ND	----	0.0107	"	"	"	"	"	
Anthracene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0107	"	"	"	"	"	
Chrysene	"	0.0204	----	0.0107	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0107	"	"	"	"	"	
Fluoranthene	"	0.0165	----	0.0107	"	"	"	"	"	
Fluorene	"	ND	----	0.0107	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0107	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	
Naphthalene	"	ND	----	0.0107	"	"	"	"	"	
Phenanthrene	"	0.0164	----	0.0107	"	"	"	"	"	
Pyrene	"	0.0179	----	0.0107	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			88.4%		46 - 125 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/13/09 17:17
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0094-01 (ICON-POS-1)		Soil			Sampled: 05/08/09 09:00					
Dry Weight	BSOPSP003R0 8	90.9	----	1.00	%	1x	9E11032	05/11/09 12:26	05/12/09 00:00	
BSE0094-02 (ICON-POS-2)		Soil			Sampled: 05/08/09 09:05					
Dry Weight	BSOPSP003R0 8	91.8	----	1.00	%	1x	9E11032	05/11/09 12:26	05/12/09 00:00	
BSE0094-03 (ICON-POS-3)		Soil			Sampled: 05/08/09 09:10					
Dry Weight	BSOPSP003R0 8	92.2	----	1.00	%	1x	9E11032	05/11/09 12:26	05/12/09 00:00	
BSE0094-04 (ICON-POS-4)		Soil			Sampled: 05/08/09 09:20					
Dry Weight	BSOPSP003R0 8	93.6	----	1.00	%	1x	9E11032	05/11/09 12:26	05/12/09 00:00	
BSE0094-05 (ICON-POS-5)		Soil			Sampled: 05/08/09 09:25					
Dry Weight	BSOPSP003R0 8	93.7	----	1.00	%	1x	9E11032	05/11/09 12:26	05/12/09 00:00	
BSE0094-06 (ICON-POS-6)		Soil			Sampled: 05/08/09 09:20					
Dry Weight	BSOPSP003R0 8	93.2	----	1.00	%	1x	9E11032	05/11/09 12:26	05/12/09 00:00	
BSE0094-07 (ICON-POS-7)		Soil			Sampled: 05/08/09 09:35					
Dry Weight	BSOPSP003R0 8	91.2	----	1.00	%	1x	9E11032	05/11/09 12:26	05/12/09 00:00	
BSE0094-08 (ICON-POS-8)		Soil			Sampled: 05/08/09 09:40					
Dry Weight	BSOPSP003R0 8	93.5	----	1.00	%	1x	9E11032	05/11/09 12:26	05/12/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/13/09 17:17
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9E11004 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E11004-BLK1)										Extracted: 05/11/09 06:37				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/11/09 08:12	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 87.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/11/09 08:12</i>	
LCS (9E11004-BS1)										Extracted: 05/11/09 06:37				
Gasoline Range Hydrocarbons	NWTPH-Gx	50.8	---	5.00	mg/kg wet	1x	--	50.0	102%	(80-120)	--	--	05/11/09 08:45	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 98.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/11/09 08:45</i>	
Duplicate (9E11004-DUP1)				QC Source: BSE0094-01				Extracted: 05/11/09 06:37						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	4.64	mg/kg dry	1x	ND	--	--	--	NR (40)		05/11/09 13:42	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 100%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/11/09 13:42</i>	
Duplicate (9E11004-DUP2)				QC Source: BSE0094-02				Extracted: 05/11/09 06:37						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	4.65	mg/kg dry	1x	ND	--	--	--	NR (40)		05/11/09 13:09	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/11/09 13:09</i>	
Matrix Spike (9E11004-MS1)				QC Source: BSE0094-01				Extracted: 05/11/09 06:37						
Gasoline Range Hydrocarbons	NWTPH-Gx	48.1	---	4.64	mg/kg dry	1x	ND	41.4	116%	(75-130)	--	--	05/11/09 12:35	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 110%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/11/09 12:35</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/13/09 17:17

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11028 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E11028-BLK1)													Extracted: 05/11/09 12:22			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/11/09 20:42			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/11/09 20:42</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
LCS (9E11028-BS1)													Extracted: 05/11/09 12:22			
Lube Oil	NWTPH-Dx	72.9	---	25.0	mg/kg wet	1x	--	66.7	109%	(63-125)	--	--	05/11/09 21:04			
Diesel Range Hydrocarbons	"	77.9	---	10.0	"	"	--	"	117%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>92.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/11/09 21:04</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9E11028-DUP1)													QC Source: BSE0094-05		Extracted: 05/11/09 12:22	
Lube Oil	NWTPH-Dx	149	---	26.5	mg/kg dry	1x	218	--	--	--	37.7%	(50)	05/11/09 21:26			
Kerosene	"	ND	---	10.6	"	"	ND	--	--	--	12.9%	"	"			
Diesel Range Hydrocarbons	"	19.9	---	10.6	"	"	26.8	--	--	--	29.6%	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/11/09 21:26</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9E11028-DUP2)													QC Source: BSE0086-02		Extracted: 05/11/09 12:22	
Lube Oil	NWTPH-Dx	ND	---	28.4	mg/kg dry	1x	ND	--	--	--	43.0%	(50)	05/11/09 21:49			
Kerosene	"	ND	---	11.3	"	"	ND	--	--	--	64.0%	"	"	R4		
Diesel Range Hydrocarbons	"	ND	---	11.3	"	"	ND	--	--	--	NR	"	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>97.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/11/09 21:49</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9E11028-MS1)													QC Source: BSE0094-05		Extracted: 05/11/09 12:22	
Lube Oil	NWTPH-Dx	226	---	26.7	mg/kg dry	1x	218	71.1	10.1%	(26-150)	--	--	05/11/09 22:11	M2		
Diesel Range Hydrocarbons	"	98.6	---	10.7	"	"	26.8	"	101%	(46-155)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/11/09 22:11</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/13/09 17:17
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E12002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E12002-BLK1)

Extracted: 05/12/09 05:25

Lead	EPA 6020	ND	---	0.476	mg/kg wet	1x	--	--	--	--	--	--	05/12/09 08:10	
Barium	"	ND	---	4.76	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.476	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.476	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.476	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.952	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.476	"	"	--	--	--	--	--	--	"	

LCS (9E12002-BS1)

Extracted: 05/12/09 05:25

Silver	EPA 6020	39.7	---	0.505	mg/kg wet	1x	--	40.4	98.3%	(80-120)	--	--	05/12/09 08:41	
Arsenic	"	39.8	---	0.505	"	"	--	"	98.4%	"	--	--	"	
Cadmium	"	39.0	---	0.505	"	"	--	"	96.6%	"	--	--	"	
Barium	"	39.0	---	5.05	"	"	--	"	96.6%	"	--	--	"	
Lead	"	40.2	---	0.505	"	"	--	"	99.6%	"	--	--	"	
Selenium	"	41.1	---	1.01	"	"	--	"	102%	"	--	--	"	
Chromium	"	39.3	---	0.505	"	"	--	"	97.2%	"	--	--	"	

Duplicate (9E12002-DUP1)

QC Source: BSE0094-01

Extracted: 05/12/09 05:25

Silver	EPA 6020	ND	---	0.362	mg/kg dry	1x	ND	--	--	--	NR (20)	--	05/12/09 09:00	
Lead	"	2.69	---	0.362	"	"	3.28	--	--	--	19.7%	"	"	
Selenium	"	ND	---	0.723	"	"	ND	--	--	--	NR	"	"	
Arsenic	"	2.73	---	0.362	"	"	2.87	--	--	--	4.82%	"	"	
Cadmium	"	ND	---	0.362	"	"	ND	--	--	--	2.19%	"	"	
Barium	"	49.7	---	3.62	"	"	50.9	--	--	--	2.37%	"	"	
Chromium	"	25.7	---	0.362	"	"	26.7	--	--	--	3.79%	"	"	

Matrix Spike (9E12002-MS1)

QC Source: BSE0094-01

Extracted: 05/12/09 05:25

Chromium	EPA 6020	49.7	---	0.355	mg/kg dry	1x	26.7	28.4	81.3%	(75-125)	--	--	05/12/09 08:54	
Cadmium	"	27.4	---	0.355	"	"	0.127	"	96.0%	"	--	--	"	
Barium	"	73.1	---	3.55	"	"	50.9	"	78.2%	"	--	--	"	
Silver	"	23.5	---	0.355	"	"	ND	"	82.8%	"	--	--	"	
Lead	"	29.8	---	0.355	"	"	3.28	"	93.6%	"	--	--	"	
Selenium	"	26.8	---	0.709	"	"	ND	"	94.4%	"	--	--	"	
Arsenic	"	28.1	---	0.355	"	"	2.87	"	88.8%	"	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E12002	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9E12002-PS1)			QC Source: BSE0094-01				Extracted: 05/12/09 05:25							
Selenium	EPA 6020	0.106	---		ug/ml	1x	0.000690	0.100	105%	(80-120)	--	--	05/12/09 08:47	
Chromium	"	0.179	---		"	"	0.0795	"	99.2%	"	--	--	"	
Silver	"	0.0950	---		"	"	0.000160	"	94.9%	"	--	--	"	
Cadmium	"	0.105	---		"	"	0.000380	"	104%	"	--	--	"	
Barium	"	0.252	---		"	"	0.152	"	100%	"	--	--	"	
Lead	"	0.113	---		"	"	0.00977	"	103%	"	--	--	"	
Arsenic	"	0.112	---		"	"	0.00856	0.0995	104%	"	--	--	"	

QC Batch: 9E13013	Soil Preparation Method: EPA 7471A
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E13013-BLK1)			QC Source: BSE0094-01				Extracted: 05/13/09 08:49							
Mercury	EPA 7471A	ND	---	0.0948	mg/kg wet	1x	--	--	--	--	--	--	05/13/09 09:40	
LCS (9E13013-BS1)			QC Source: BSE0094-01				Extracted: 05/13/09 08:49							
Mercury	EPA 7471A	0.616	---	0.0978	mg/kg wet	1x	--	0.652	94.5%	(80-120)	--	--	05/13/09 09:43	
LCS Dup (9E13013-BSD1)			QC Source: BSE0094-01				Extracted: 05/13/09 08:49							
Mercury	EPA 7471A	0.638	---	0.0998	mg/kg wet	1x	--	0.666	95.8%	(80-120)	3.43%	(20)	05/13/09 09:45	
Matrix Spike (9E13013-MS1)			QC Source: BSE0094-01				Extracted: 05/13/09 08:49							
Mercury	EPA 7471A	0.731	---	0.101	mg/kg dry	1x	0.0368	0.676	103%	(80-125)	--	--	05/13/09 09:48	
Matrix Spike Dup (9E13013-MSD1)			QC Source: BSE0094-01				Extracted: 05/13/09 08:49							
Mercury	EPA 7471A	0.749	---	0.103	mg/kg dry	1x	0.0368	0.689	103%	(80-125)	2.41%	(30)	05/13/09 09:50	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/13/09 17:17
--	--	-----------------------------------

TCLP Metals by EPA 1311/6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E12039 TCLP Preparation Method: EPA 3010A TCLP

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E12039-BLK1)								Extracted: 05/12/09 20:50						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	05/13/09 12:29	
Blank (9E12039-BLK2)								Extracted: 05/12/09 20:50						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	--	--	--	--	--	--	05/13/09 12:32	
LCS (9E12039-BS1)								Extracted: 05/12/09 20:50						
Lead	EPA 6010B	43.3	---	1.00	mg/l	1x	--	50.0	86.6%	(80-120)	--	--	05/13/09 12:36	
Duplicate (9E12039-DUP1)				QC Source: BSE0094-01				Extracted: 05/12/09 20:50						
Lead	EPA 6010B	ND	---	1.00	mg/l	1x	ND	--	--	--	(20)	--	05/13/09 12:42	
Matrix Spike (9E12039-MS1)				QC Source: BSE0094-01				Extracted: 05/12/09 20:50						
Lead	EPA 6010B	43.8	---	1.00	mg/l	1x	ND	50.0	87.6%	(80-120)	--	--	05/13/09 12:39	
Post Spike (9E12039-PS1)				QC Source: BSE0094-01				Extracted: 05/12/09 20:50						
Lead	EPA 6010B	4.48	---		ug/ml	1x	-0.000300	5.00	89.7%	(75-125)	--	--	05/13/09 12:45	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/13/09 17:17
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Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11026	Soil Preparation Method: EPA 3550B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E11026-BLK1)

Extracted: 05/11/09 12:19

Aroclor 1016	EPA 8082	ND	---	25.0	ug/kg wet	1x	--	--	--	--	--	--	05/13/09 11:21	
Aroclor 1221	"	ND	---	50.0	"	"	--	--	--	--	--	--	"	
Aroclor 1232	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1242	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1248	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1254	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1260	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1262	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Aroclor 1268	"	ND	---	25.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): TCX		Recovery:	108%	Limits: 53-136%		"						05/13/09 11:21		
Decachlorobiphenyl			117%	35-150%		"								

LCS (9E11026-BS1)

Extracted: 05/11/09 12:19

Aroclor 1016	EPA 8082	77.0	---	25.0	ug/kg wet	1x	--	83.3	92.4%	(76-124)	--	--	05/13/09 11:40	
Aroclor 1260	"	85.8	---	25.0	"	"	--	"	103%	(67-124)	--	--	"	
Surrogate(s): TCX		Recovery:	115%	Limits: 53-136%		"						05/13/09 11:40		
Decachlorobiphenyl			129%	35-150%		"								

Matrix Spike (9E11026-MS1)

QC Source: BSE0093-01

Extracted: 05/11/09 12:19

Aroclor 1016	EPA 8082	82.2	---	26.4	ug/kg dry	1x	ND	88.1	93.4%	(65-135)	--	--	05/13/09 11:59	
Aroclor 1260	"	86.7	---	26.4	"	"	ND	"	98.4%	(50-135)	--	--	"	
Surrogate(s): TCX		Recovery:	114%	Limits: 53-136%		"						05/13/09 11:59		
Decachlorobiphenyl			122%	35-150%		"								

Matrix Spike Dup (9E11026-MSD1)

QC Source: BSE0093-01

Extracted: 05/11/09 12:19

Aroclor 1016	EPA 8082	85.1	---	26.7	ug/kg dry	1x	ND	88.9	95.7%	(65-135)	3.42%	(31)	05/13/09 12:18	
Aroclor 1260	"	92.8	---	26.7	"	"	ND	"	104%	(50-135)	6.79%	"	"	
Surrogate(s): TCX		Recovery:	114%	Limits: 53-136%		"						05/13/09 12:18		
Decachlorobiphenyl			123%	35-150%		"								

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9E08027

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E08027-BLK1)													Extracted: 05/08/09 16:16	
Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	05/08/09 16:44	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9E08027

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes						
Blank (9E08027-BLK1)													Extracted: 05/08/09 16:16							
Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	05/08/09 16:44							
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"							
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"							
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"							
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"							
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"							
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"							
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"							
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"							
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"							
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"							
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"							
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"							
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"							
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"							
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"							
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"							
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 131%</i>		<i>Limits: 70-140%</i>		<i>"</i>		<i>05/08/09 16:44</i>	
<i>Toluene-d8</i>													<i>89.0%</i>		<i>70-130%</i>		<i>"</i>		<i>"</i>	
<i>4-BFB</i>													<i>100%</i>		<i>70-130%</i>		<i>"</i>		<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9E08027

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9E08027-BS1)													Extracted: 05/08/09 15:16	
Acetone	EPA 8260B	566	---	40.0	ug/kg wet	1x	--	500	113%	(60-140)	--	--	05/08/09 15:53	
Benzene	"	44.3	---	1.50	"	"	--	50.0	88.6%	(70-125)	--	--	"	
2-Butanone	"	452	---	30.0	"	"	--	500	90.4%	(60-140)	--	--	"	
Carbon disulfide	"	46.2	---	3.00	"	"	--	50.0	92.4%	(70-130)	--	--	"	
Chlorobenzene	"	40.9	---	2.00	"	"	--	"	81.8%	(70-125)	--	--	"	
1,1-Dichloroethane	"	46.9	---	2.00	"	"	--	"	93.7%	(75-125)	--	--	"	
1,1-Dichloroethene	"	47.2	---	3.00	"	"	--	"	94.3%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	47.2	---	3.00	"	"	--	"	94.3%	(75-125)	--	--	"	
Ethylbenzene	"	43.1	---	4.00	"	"	--	"	86.3%	(70-125)	--	--	"	
Hexachlorobutadiene	"	47.1	---	10.0	"	"	--	"	94.2%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	503	---	30.0	"	"	--	500	101%	(60-140)	--	--	"	
Tetrachloroethene	"	43.0	---	2.00	"	"	--	50.0	85.9%	(70-125)	--	--	"	
Toluene	"	40.0	---	1.50	"	"	--	"	79.9%	"	--	--	"	
1,1,1-Trichloroethane	"	49.2	---	2.50	"	"	--	"	98.4%	(70-130)	--	--	"	
Trichloroethene	"	45.4	---	2.50	"	"	--	"	90.9%	(70-125)	--	--	"	

Surrogate(s):	1,2-DCA-d4	Recovery:	107%	Limits:	70-140%	"	05/08/09 15:53
	Toluene-d8		94.3%		70-130%	"	"
	4-BFB		101%		70-130%	"	"

LCS Dup (9E08027-BSD1)

Extracted: 05/08/09 15:16

Acetone	EPA 8260B	540	---	40.0	ug/kg wet	1x	--	500	108%	(60-140)	4.67% (30)	05/08/09 16:18	
Benzene	"	44.6	---	1.50	"	"	--	50.0	89.1%	(70-125)	0.653%	"	"
2-Butanone	"	498	---	30.0	"	"	--	500	99.6%	(60-140)	9.77%	"	"
Carbon disulfide	"	43.1	---	3.00	"	"	--	50.0	86.1%	(70-130)	7.06%	"	"
Chlorobenzene	"	43.9	---	2.00	"	"	--	"	87.8%	(70-125)	7.07%	"	"
1,1-Dichloroethane	"	45.1	---	2.00	"	"	--	"	90.2%	(75-125)	3.83%	"	"
1,1-Dichloroethene	"	43.6	---	3.00	"	"	--	"	87.1%	(70-130)	7.89%	"	"
cis-1,2-Dichloroethene	"	45.2	---	3.00	"	"	--	"	90.4%	(75-125)	4.20%	"	"
Ethylbenzene	"	45.5	---	4.00	"	"	--	"	91.1%	(70-125)	5.41%	"	"
Hexachlorobutadiene	"	43.7	---	10.0	"	"	--	"	87.3%	(70-130)	7.54%	"	"
4-Methyl-2-pentanone	"	577	---	30.0	"	"	--	500	115%	(60-140)	13.8%	"	"
Tetrachloroethene	"	45.3	---	2.00	"	"	--	50.0	90.6%	(70-125)	5.30%	"	"
Toluene	"	42.6	---	1.50	"	"	--	"	85.1%	"	6.30%	"	"
1,1,1-Trichloroethane	"	47.2	---	2.50	"	"	--	"	94.4%	(70-130)	4.13%	"	"
Trichloroethene	"	46.7	---	2.50	"	"	--	"	93.4%	(70-125)	2.76%	"	"

Surrogate(s):	1,2-DCA-d4	Recovery:	100%	Limits:	70-140%	"	05/08/09 16:18
	Toluene-d8		93.4%		70-130%	"	"
	4-BFB		104%		70-130%	"	"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/13/09 17:17
--	--	-----------------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11027 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E11027-BLK1)													Extracted: 05/11/09 12:21			
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	05/12/09 10:08			
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): p-Terphenyl-d14</i>													<i>Recovery: 90.2%</i>	<i>Limits: 46-125%</i>	<i>"</i>	<i>05/12/09 10:08</i>

LCS (9E11027-BS1)													Extracted: 05/11/09 12:21	
Acenaphthene	8270C-SIM	0.635	---	0.0100	mg/kg wet	1x	--	0.667	95.2%	(65-130)	--	--	05/12/09 12:07	
Acenaphthylene	"	0.608	---	0.0100	"	"	--	"	91.2%	(67-142)	--	--	"	
Anthracene	"	0.849	---	0.0100	"	"	--	"	127%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.728	---	0.0100	"	"	--	"	109%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.730	---	0.0100	"	"	--	"	109%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.700	---	0.0100	"	"	--	"	105%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.762	---	0.0100	"	"	--	"	114%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.695	---	0.0100	"	"	--	"	104%	"	--	--	"	
Chrysene	"	0.742	---	0.0100	"	"	--	"	111%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.693	---	0.0100	"	"	--	"	104%	(56-149)	--	--	"	
Fluoranthene	"	0.963	---	0.0100	"	"	--	"	144%	(72-145)	--	--	"	
Fluorene	"	0.767	---	0.0100	"	"	--	"	115%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.679	---	0.0100	"	"	--	"	102%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.592	---	0.0100	"	"	--	"	88.9%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.613	---	0.0100	"	"	--	"	91.9%	(56-124)	--	--	"	
Naphthalene	"	0.561	---	0.0100	"	"	--	"	84.1%	(56-146)	--	--	"	
Phenanthrene	"	0.706	---	0.0100	"	"	--	"	106%	(64-139)	--	--	"	
Pyrene	"	0.587	---	0.0100	"	"	--	"	88.0%	(58-149)	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/13/09 17:17
--	--	-----------------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11027 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9E11027-BS1) Extracted: 05/11/09 12:21
Surrogate(s): p-Terphenyl-d14 Recovery: 77.8% Limits: 46-125% Ix 05/12/09 12:07

Matrix Spike (9E11027-MS1) QC Source: BSE0094-01 Extracted: 05/11/09 12:21

Acenaphthene	8270C-SIM	0.718	---	0.0110	mg/kg dry	1x	ND	0.731	98.3%	(64-140)	--	--	05/12/09 13:45	
Acenaphthylene	"	0.701	---	0.0110	"	"	ND	"	95.9%	(66-150)	--	--	"	
Anthracene	"	0.874	---	0.0110	"	"	ND	"	120%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.782	---	0.0110	"	"	0.00916	"	106%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.745	---	0.0110	"	"	0.0117	"	100%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.753	---	0.0110	"	"	ND	"	103%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.793	---	0.0110	"	"	ND	"	108%	"	--	--	"	
Benzo (ghi) perylene	"	0.527	---	0.0110	"	"	0.00821	"	71.0%	"	--	--	"	
Chrysene	"	0.784	---	0.0110	"	"	0.0358	"	102%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.574	---	0.0110	"	"	0.00755	"	77.5%	(55-150)	--	--	"	
Fluoranthene	"	1.07	---	0.0110	"	"	0.00821	"	145%	(70-150)	--	--	"	
Fluorene	"	0.831	---	0.0110	"	"	0.00440	"	113%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.538	---	0.0110	"	"	0.00601	"	72.8%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.694	---	0.0110	"	"	0.00557	"	94.3%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.721	---	0.0110	"	"	0.00652	"	97.8%	(50-140)	--	--	"	
Naphthalene	"	0.651	---	0.0110	"	"	ND	"	89.0%	(47-147)	--	--	"	
Phenanthrene	"	0.738	---	0.0110	"	"	0.0150	"	98.9%	(56-150)	--	--	"	
Pyrene	"	0.651	---	0.0110	"	"	0.0143	"	87.2%	(57-150)	--	--	"	

Surrogate(s): p-Terphenyl-d14 Recovery: 75.3% Limits: 46-125% " 05/12/09 13:45

Matrix Spike Dup (9E11027-MSD1) QC Source: BSE0094-01 Extracted: 05/11/09 12:21

Acenaphthene	8270C-SIM	0.725	---	0.0109	mg/kg dry	1x	ND	0.728	99.5%	(64-140)	0.902% (41)		05/12/09 14:18	
Acenaphthylene	"	0.719	---	0.0109	"	"	ND	"	98.7%	(66-150)	2.48%	"	"	
Anthracene	"	0.890	---	0.0109	"	"	ND	"	122%	(54-150)	1.78%	"	"	
Benzo (a) anthracene	"	0.808	---	0.0109	"	"	0.00916	"	110%	(57-150)	3.34%	"	"	
Benzo (a) pyrene	"	0.739	---	0.0109	"	"	0.0117	"	99.8%	(55-150)	0.922% (35)	"	"	
Benzo (b) fluoranthene	"	0.855	---	0.0109	"	"	ND	"	117%	(54-150)	12.6% (41)	"	"	
Benzo (k) fluoranthene	"	0.709	---	0.0109	"	"	ND	"	97.4%	"	11.1%	"	"	
Benzo (ghi) perylene	"	0.494	---	0.0109	"	"	0.00821	"	66.8%	"	6.39%	"	"	
Chrysene	"	0.801	---	0.0109	"	"	0.0358	"	105%	(65-150)	2.12% (40)	"	"	
Dibenz (a,h) anthracene	"	0.551	---	0.0109	"	"	0.00755	"	74.6%	(55-150)	4.13% (41)	"	"	
Fluoranthene	"	1.06	---	0.0109	"	"	0.00821	"	145%	(70-150)	0.489%	"	"	
Fluorene	"	0.846	---	0.0109	"	"	0.00440	"	116%	(74-150)	1.83% (44)	"	"	
Indeno (1,2,3-cd) pyrene	"	0.516	---	0.0109	"	"	0.00601	"	70.0%	(50-150)	4.18%	"	"	
1-Methylnaphthalene	"	0.717	---	0.0109	"	"	0.00557	"	97.6%	(45-145)	3.16% (41)	"	"	
2-Methylnaphthalene	"	0.747	---	0.0109	"	"	0.00652	"	102%	(50-140)	3.58%	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/13/09 17:17
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11027 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9E11027-MSD1)			QC Source: BSE0094-01				Extracted: 05/11/09 12:21							
Naphthalene	8270C-SIM	0.664	---	0.0109	mg/kg dry	1x	ND	0.728	91.1%	(47-147)	1.98%	(41)	05/12/09 14:18	
Phenanthrene	"	0.757	---	0.0109	"	"	0.0150	"	102%	(56-150)	2.58%	"	"	
Pyrene	"	0.660	---	0.0109	"	"	0.0143	"	88.6%	(57-150)	1.25%	"	"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 77.2%		Limits: 46-125%		"						05/12/09 14:18		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/13/09 17:17
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11032 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E11032-BLK1)										Extracted: 05/11/09 12:26				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/12/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 1311	Soil	N/A	N/A
EPA 6010B	Soil	X	X
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8082	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/13/09 17:17

Notes and Definitions

Report Specific Notes:

- I2 - Internal Standard recovery was outside of method limits.
- M2 - The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ **Logged-in By:** _____ **Unpacked/ Labeled by:** _____ **Label Review by:** _____ **Cooler ID:** _____
 (applies to temp at receipt) *not available.*
 Date: 5/8/04 Date: 05-08 Date: 05-08 Date: _____ Work Order No. BSE0094
 Time: 1730 Time: 1839 Time: 1815 Time: _____ Client: _____
 Initials: EL Initials: CW Initials: CW Initials: _____ Project: _____

Container Type: _____ **COC Seals:** _____ **Packing Material:** _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs _____
 _____ None/Other _____ None _____ None/Other Bubble Wrap

Refrigerant: _____ **Soil Stir Bars/Encores:** _____ **Received Via: Bill#:** _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client _____
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier _____
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley _____
 _____ Senvoy _____ TDP _____
 _____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 0.6 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ **ID** _____ **ID** _____
 Intact? or N _____ Metals Preserved? Y or N or Soil
 Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA
 Correct Type? or N _____ Adequate Volume? or N _____
 (for tests requested)
 #Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA
 IDs/time/date match COC? or N _____ Comments: _____
 Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete
 Comments, Problems _____

Total access set up? _____ Y or N

May 12, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/11/09 15:50.
The following list is a summary of the Work Orders contained in this report, generated on 05/12/09
16:47.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0105	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/12/09 16:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA 1-E10-9	BSE0105-01	Soil	05/11/09 14:30	05/11/09 15:50
AREA 1-F10-9	BSE0105-02	Soil	05/11/09 14:40	05/11/09 15:50
AREA 1-G10-7	BSE0105-03	Soil	05/11/09 15:00	05/11/09 15:50

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/12/09 16:47
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0105-01 (AREA 1-E10-9)		Soil		Sampled: 05/11/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	8.89	4.49	16.0	mg/kg dry	1x	9E11045	05/11/09 16:32	05/12/09 01:46	J
Surrogate(s): 4-BFB (FID)			152%		75 - 140 %	"			"	ZX
BSE0105-02 (AREA 1-F10-9)		Soil		Sampled: 05/11/09 14:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.56	5.55	mg/kg dry	1x	9E11045	05/11/09 16:32	05/12/09 02:19	
Surrogate(s): 4-BFB (FID)			116%		75 - 140 %	"			"	
BSE0105-03 (AREA 1-G10-7)		Soil		Sampled: 05/11/09 15:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.76	6.29	mg/kg dry	1x	9E11045	05/11/09 16:32	05/12/09 02:52	
Surrogate(s): 4-BFB (FID)			103%		75 - 140 %	"			"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/12/09 16:47

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0105-01 (AREA 1-E10-9)		Soil			Sampled: 05/11/09 14:30					
Lube Oil	NWTPH-Dx	368	----	58.1	mg/kg dry	1x	9E11029	05/11/09 15:23	05/11/09 22:18	Q1
Kerosene	"	36.3	----	23.3	"	"	"	"	"	A-01
<i>Surrogate(s): 2-FBP</i>			93.8%		54 - 148 %	"				
<i>Octacosane</i>			109%		62 - 142 %	"				
BSE0105-01RE1 (AREA 1-E10-9)		Soil			Sampled: 05/11/09 14:30					
Diesel Range Hydrocarbons	NWTPH-Dx	210	----	23.3	mg/kg dry	1x	9E11029	05/11/09 15:23	05/12/09 13:29	Q6
<i>Surrogate(s): 2-FBP</i>			83.5%		54 - 148 %	"				
<i>Octacosane</i>			106%		62 - 142 %	"				
BSE0105-02 (AREA 1-F10-9)		Soil			Sampled: 05/11/09 14:40					
Lube Oil	NWTPH-Dx	ND	----	31.7	mg/kg dry	1x	9E11029	05/11/09 15:23	05/11/09 22:42	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			96.8%		54 - 148 %	"				
<i>Octacosane</i>			108%		62 - 142 %	"				
BSE0105-03 (AREA 1-G10-7)		Soil			Sampled: 05/11/09 15:00					
Lube Oil	NWTPH-Dx	ND	----	29.8	mg/kg dry	1x	9E11029	05/11/09 15:23	05/11/09 23:06	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.7%		54 - 148 %	"				
<i>Octacosane</i>			110%		62 - 142 %	"				

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/12/09 16:47

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0105-01 (AREA 1-E10-9)		Soil		Sampled: 05/11/09 14:30						
Lead	EPA 6020	101	----	0.763	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 09:06	
BSE0105-02 (AREA 1-F10-9)		Soil		Sampled: 05/11/09 14:40						
Lead	EPA 6020	1.37	----	0.256	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 09:12	
BSE0105-03 (AREA 1-G10-7)		Soil		Sampled: 05/11/09 15:00						
Lead	EPA 6020	2.02	----	0.335	mg/kg dry	1x	9E12002	05/12/09 05:25	05/12/09 09:19	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 05/12/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSE0105-01RE1 (AREA 1-E10-9)		Soil		Sampled: 05/11/09 14:30							
Benzene	EPA 8260B	ND	----	0.00176	mg/kg dry	1x	9E11037	05/11/09 17:30	05/11/09 20:38		
Ethylbenzene	"	ND	----	0.00469	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.00117	"	"	"	"	"		
Naphthalene	"	ND	----	0.0117	"	"	"	"	"	I	
Toluene	"	ND	----	0.00176	"	"	"	"	"		
o-Xylene	"	ND	----	0.00586	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00586	"	"	"	"	"		
Total Xylenes	"	ND	----	0.0117	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				127%		70 - 140 %	"		"		
<i>Toluene-d8</i>				97.7%		70 - 130 %	"		"		
<i>4-BFB</i>				118%		70 - 130 %	"		"	I	
BSE0105-02 (AREA 1-F10-9)		Soil		Sampled: 05/11/09 14:40							P13
Benzene	EPA 8260B	ND	----	0.000928	mg/kg dry	1x	9E11037	05/11/09 17:30	05/11/09 18:56		
Ethylbenzene	"	ND	----	0.00248	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000619	"	"	"	"	"		
Naphthalene	"	ND	----	0.00619	"	"	"	"	"		
Toluene	"	ND	----	0.000928	"	"	"	"	"		
o-Xylene	"	ND	----	0.00309	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00309	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00619	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				125%		70 - 140 %	"		"		
<i>Toluene-d8</i>				88.8%		70 - 130 %	"		"		
<i>4-BFB</i>				104%		70 - 130 %	"		"		
BSE0105-03RE1 (AREA 1-G10-7)		Soil		Sampled: 05/11/09 15:00							
Benzene	EPA 8260B	ND	----	0.000964	mg/kg dry	1x	9E11037	05/11/09 17:30	05/11/09 19:47		
Ethylbenzene	"	ND	----	0.00257	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000643	"	"	"	"	"		
Naphthalene	"	ND	----	0.00643	"	"	"	"	"		
Toluene	"	ND	----	0.000964	"	"	"	"	"		
o-Xylene	"	ND	----	0.00321	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00321	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00643	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				131%		70 - 140 %	"		"		
<i>Toluene-d8</i>				89.6%		70 - 130 %	"		"		
<i>4-BFB</i>				102%		70 - 130 %	"		"		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/12/09 16:47

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0105-01 (AREA 1-E10-9)		Soil								Sampled: 05/11/09 14:30
Dry Weight	BSOPSP003R0 8	42.9	----	1.00	%	1x	9E11032	05/11/09 15:05	05/12/09 00:00	
BSE0105-02 (AREA 1-F10-9)		Soil								Sampled: 05/11/09 14:40
Dry Weight	BSOPSP003R0 8	78.5	----	1.00	%	1x	9E11032	05/11/09 15:05	05/12/09 00:00	
BSE0105-03 (AREA 1-G10-7)		Soil								Sampled: 05/11/09 15:00
Dry Weight	BSOPSP003R0 8	83.9	----	1.00	%	1x	9E11032	05/11/09 15:05	05/12/09 00:00	

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URS Corporation

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 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/12/09 16:47

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11045 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E11045-BLK1)								Extracted: 05/11/09 16:32						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/12/09 00:41	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 87.2%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/12/09 00:41</i>
LCS (9E11045-BS1)								Extracted: 05/11/09 16:32						
Gasoline Range Hydrocarbons	NWTPH-Gx	43.2	1.40	5.00	mg/kg wet	1x	--	50.0	86.3%	(80-120)	--	--	05/12/09 01:14	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.4%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/12/09 01:14</i>
Duplicate (9E11045-DUP1)				QC Source: BSE0105-03				Extracted: 05/11/09 16:32						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.76	6.29	mg/kg dry	1x	ND	--	--	--	NR (40)		05/12/09 03:25	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 106%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/12/09 03:25</i>
Matrix Spike (9E11045-MS1)				QC Source: BSE0105-03				Extracted: 05/11/09 16:32						
Gasoline Range Hydrocarbons	NWTPH-Gx	68.1	1.76	6.29	mg/kg dry	1x	ND	53.3	128%	(75-130)	--	--	05/12/09 03:58	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 117%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/12/09 03:58</i>

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/12/09 16:47
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11029 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E11029-BLK1)

Extracted: 05/11/09 12:23

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/11/09 20:19	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>82.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/11/09 20:19</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Blank (9E11029-BLK2)

Extracted: 05/11/09 12:23

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/12/09 12:44	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>73.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/12/09 12:44</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E11029-BS1)

Extracted: 05/11/09 12:23

Lube Oil	NWTPH-Dx	63.8	---	25.0	mg/kg wet	1x	--	66.7	95.6%	(63-125)	--	--	05/11/09 20:43	
Diesel Range Hydrocarbons	"	71.9	---	10.0	"	"	--	"	108%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/11/09 20:43</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E11029-BS2)

Extracted: 05/11/09 12:23

Lube Oil	NWTPH-Dx	67.6	---	25.0	mg/kg wet	1x	--	66.7	101%	(63-125)	--	--	05/12/09 13:06	
Diesel Range Hydrocarbons	"	78.3	---	10.0	"	"	--	"	117%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>88.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/12/09 13:06</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E11029-DUP1)

QC Source: BSE0079-01

Extracted: 05/11/09 12:23

Lube Oil	NWTPH-Dx	ND	---	32.2	mg/kg dry	1x	ND	--	--	--	77.0%	(50)	05/11/09 21:07	R4
Kerosene	"	ND	---	12.9	"	"	ND	--	--	--	104%	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.9	"	"	ND	--	--	--	145%	"	"	R4
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/11/09 21:07</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E11029-MS1)

QC Source: BSE0079-01

Extracted: 05/11/09 12:23

Lube Oil	NWTPH-Dx	88.5	---	32.4	mg/kg dry	1x	18.1	86.4	81.5%	(26-150)	--	--	05/11/09 21:31	
Diesel Range Hydrocarbons	"	96.2	---	13.0	"	"	6.01	"	104%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/11/09 21:31</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/12/09 16:47
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E12002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E12002-BLK1)								Extracted: 05/12/09 05:25						
Lead	EPA 6020	ND	---	0.476	mg/kg wet	1x	--	--	--	--	--	--	05/12/09 08:10	
LCS (9E12002-BS1)								Extracted: 05/12/09 05:25						
Lead	EPA 6020	40.2	---	0.505	mg/kg wet	1x	--	40.4	99.6%	(80-120)	--	--	05/12/09 08:41	
Duplicate (9E12002-DUP1)				QC Source: BSE0094-01				Extracted: 05/12/09 05:25						
Lead	EPA 6020	2.69	---	0.362	mg/kg dry	1x	3.28	--	--	--	19.7% (20)	--	05/12/09 09:00	
Matrix Spike (9E12002-MS1)				QC Source: BSE0094-01				Extracted: 05/12/09 05:25						
Lead	EPA 6020	29.8	---	0.355	mg/kg dry	1x	3.28	28.4	93.6%	(75-125)	--	--	05/12/09 08:54	
Post Spike (9E12002-PS1)				QC Source: BSE0094-01				Extracted: 05/12/09 05:25						
Lead	EPA 6020	0.113	---		ug/ml	1x	0.00977	0.100	103%	(80-120)	--	--	05/12/09 08:47	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/12/09 16:47
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11037 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E11037-BLK1)													Extracted: 05/11/09 13:00	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/11/09 18:04	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>131%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/11/09 18:04</i>	
<i>Toluene-d8</i>			<i>87.7%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>104%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E11037-BS1)													Extracted: 05/11/09 13:00	
Benzene	EPA 8260B	0.0407	---	0.00150	mg/kg wet	1x	--	0.0500	81.5%	(70-125)	--	--	05/11/09 17:13	
Ethylbenzene	"	0.0408	---	0.00400	"	"	--	"	81.5%	"	--	--	"	
Methyl tert-butyl ether	"	0.0440	---	0.00100	"	"	--	"	87.9%	(70-130)	--	--	"	
Naphthalene	"	0.0398	---	0.0100	"	"	--	"	79.6%	"	--	--	"	
Toluene	"	0.0379	---	0.00150	"	"	--	"	75.8%	(70-125)	--	--	"	
Total Xylenes	"	0.123	---	0.0100	"	"	--	0.150	81.8%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/11/09 17:13</i>	
<i>Toluene-d8</i>			<i>88.8%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>105%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E11037-BSD1)													Extracted: 05/11/09 13:00	
Benzene	EPA 8260B	0.0432	---	0.00150	mg/kg wet	1x	--	0.0500	86.4%	(70-125)	5.84% (30)		05/11/09 17:39	
Ethylbenzene	"	0.0440	---	0.00400	"	"	--	"	88.0%	"	7.62%	"	"	
Methyl tert-butyl ether	"	0.0481	---	0.00100	"	"	--	"	96.3%	(70-130)	9.08%	"	"	
Naphthalene	"	0.0476	---	0.0100	"	"	--	"	95.3%	"	18.0%	"	"	
Toluene	"	0.0407	---	0.00150	"	"	--	"	81.4%	(70-125)	7.10%	"	"	
Total Xylenes	"	0.134	---	0.0100	"	"	--	0.150	89.0%	(70-130)	8.45%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/11/09 17:39</i>	
<i>Toluene-d8</i>			<i>93.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/12/09 16:47
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E11032 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E11032-BLK1)										Extracted: 05/11/09 12:26				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/12/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/12/09 16:47

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/12/09 16:47

Notes and Definitions

Report Specific Notes:

- A-01 - Results in the Kerosene range are primarily due to overlap from a heavy oil range product
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSE0105**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: Wmep Staff		P.O. NUMBER:		<input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10	
PHONE:		PRESERVATIVE		in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses	
PROJECT NAME: Wmep Phase II		REQUESTED ANALYSES		Specify: 24-hr * Turnaround Requests less than standard may incur Rush Charges.	
PROJECT NUMBER:		OTHER		MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WO ID	
SAMPLED BY: Matthew Mckibbin		SAMPLING DATE/TIME		S 5 5 Seawater -01 S 4 4 Sand -02 S 4 4 Sand -03	
CLIENT SAMPLE IDENTIFICATION		DATE/TIME			
1 AREA-E10-9		5-11-09 / 1430			
2 AREA-F10-9		" / 1440			
3 AREA-G10-7		" / 1500			
4					
5					
6					
7					
8					
9					
10					
RELEASED BY: Wmep Staff		DATE: 5-11-09		DATE: 5/17/09	
PRINT NAME: Matthew Mckibbin		TIME: 1515		TIME: 1515	
FIRM: WAS		RECEIVED BY: Tom		FIRM: Blaw Kinship	
FIRM: WAS		PRINT NAME: Blaw Kinship		FIRM: Blaw Kinship	
FIRM: WAS		RECEIVED BY:		DATE:	
FIRM: WAS		PRINT NAME:		TIME:	
FIRM: WAS		RECEIVED BY:		DATE:	
FIRM: WAS		PRINT NAME:		TIME:	
ADDITIONAL REMARKS:		TEMP: 4.5		PAGE OF	
TEMP all 3 total lead samples of 2500 mg/kg @ lab 1550		W/o		ITAL-1000(0408)	

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 5/11 Date: 5/11 Date: 5/11 Date: 5/11/09 Work Order No. BSE0105
 Time: 1530 Time: 1610 Time: 1635 Time: 1635 Client: _____
 Initials: IB Initials: IB Initials: IB Initials: IB Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 Box _____ On Bottles _____ Date _____ Foam Packs _____
 None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 Loose Ice _____ Y or N or NA 5/11 UPS TA Courier
 None/Other _____ Initial/date/time: 5/11/1645 DHL _____ Mid Valley
 GS _____ Senvoy _____ TDP
 Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 4.5 °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="checkbox"/> or N _____	Metals Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Provided by TA? <input checked="" type="checkbox"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Correct Type? <input checked="" type="checkbox"/> or N _____	Adequate Volume? <input checked="" type="checkbox"/> or N _____	
#Containers match COC? <input checked="" type="checkbox"/> or N _____	(for tests requested)	
IDs/time/date match COC? <input checked="" type="checkbox"/> or N _____	Water VOAs: Headspace? Y or N or <input checked="" type="checkbox"/> NA _____	
Hold Times in hold? <input checked="" type="checkbox"/> or N _____	Comments: _____	

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

May 13, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/12/09 16:45.
The following list is a summary of the Work Orders contained in this report, generated on 05/13/09
17:27.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0116	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/13/09 17:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-E9-7	BSE0116-01	Soil	05/12/09 08:30	05/12/09 16:45
Area1-F9-7	BSE0116-02	Soil	05/12/09 08:40	05/12/09 16:45
Area1-G9-7	BSE0116-03	Soil	05/12/09 08:50	05/12/09 16:45
Area1-F8-7	BSE0116-04	Soil	05/12/09 09:00	05/12/09 16:45
Area1-G8-7	BSE0116-05	Soil	05/12/09 09:10	05/12/09 16:45

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2	
1501 4th Ave, Suite 1400	Project Number: 33759381	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	05/13/09 17:27

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0116-01 (Area1-E9-7)		Soil		Sampled: 05/12/09 08:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.82	6.49	mg/kg dry	1x	9E12032	05/12/09 21:25	05/12/09 22:56	MI
Surrogate(s): 4-BFB (FID)			108%		75 - 140 %					
BSE0116-02 (Area1-F9-7)		Soil		Sampled: 05/12/09 08:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.83	6.52	mg/kg dry	1x	9E12032	05/12/09 21:25	05/12/09 23:28	
Surrogate(s): 4-BFB (FID)			107%		75 - 140 %					
BSE0116-03 (Area1-G9-7)		Soil		Sampled: 05/12/09 08:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	3.58	12.8	mg/kg dry	1x	9E12032	05/12/09 21:25	05/13/09 00:01	
Surrogate(s): 4-BFB (FID)			129%		75 - 140 %					
BSE0116-04 (Area1-F8-7)		Soil		Sampled: 05/12/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.92	6.86	mg/kg dry	1x	9E12032	05/12/09 21:25	05/13/09 00:34	
Surrogate(s): 4-BFB (FID)			106%		75 - 140 %					
BSE0116-05 (Area1-G8-7)		Soil		Sampled: 05/12/09 09:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	4.13	14.7	mg/kg dry	1x	9E12032	05/12/09 21:25	05/13/09 01:07	
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %					

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/13/09 17:27

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0116-01 (Area1-E9-7)		Soil		Sampled: 05/12/09 08:30						
Lube Oil	NWTPH-Dx	ND	----	30.8	mg/kg dry	1x	9E12021	05/12/09 12:07	05/13/09 12:15	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			77.9%		54 - 148 %	"				"
<i>Octacosane</i>			89.4%		62 - 142 %	"				"
BSE0116-02 (Area1-F9-7)		Soil		Sampled: 05/12/09 08:40						
Lube Oil	NWTPH-Dx	ND	----	30.3	mg/kg dry	1x	9E12021	05/12/09 12:07	05/13/09 12:38	
Kerosene	"	ND	----	12.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.1%		54 - 148 %	"				"
<i>Octacosane</i>			92.8%		62 - 142 %	"				"
BSE0116-03 (Area1-G9-7)		Soil		Sampled: 05/12/09 08:50						
Lube Oil	NWTPH-Dx	ND	----	44.5	mg/kg dry	1x	9E12021	05/12/09 12:07	05/13/09 13:01	
Kerosene	"	ND	----	17.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	17.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.6%		54 - 148 %	"				"
<i>Octacosane</i>			95.1%		62 - 142 %	"				"
BSE0116-04 (Area1-F8-7)		Soil		Sampled: 05/12/09 09:00						
Lube Oil	NWTPH-Dx	ND	----	30.0	mg/kg dry	1x	9E12021	05/12/09 12:07	05/13/09 13:25	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			73.5%		54 - 148 %	"				"
<i>Octacosane</i>			87.0%		62 - 142 %	"				"
BSE0116-05 (Area1-G8-7)		Soil		Sampled: 05/12/09 09:10						
Lube Oil	NWTPH-Dx	ND	----	47.6	mg/kg dry	1x	9E12021	05/12/09 12:07	05/13/09 13:49	
Kerosene	"	ND	----	19.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	19.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			74.6%		54 - 148 %	"				"
<i>Octacosane</i>			88.2%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/13/09 17:27

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0116-01 (Area1-E9-7)		Soil		Sampled: 05/12/09 08:30						
Lead	EPA 6020	2.76	----	0.614	mg/kg dry	1x	9E12038	05/12/09 20:44	05/13/09 10:44	
BSE0116-02 (Area1-F9-7)		Soil		Sampled: 05/12/09 08:40						
Lead	EPA 6020	1.85	----	0.600	mg/kg dry	1x	9E12038	05/12/09 20:44	05/13/09 10:51	
BSE0116-03 (Area1-G9-7)		Soil		Sampled: 05/12/09 08:50						
Lead	EPA 6020	11.5	----	0.760	mg/kg dry	1x	9E12038	05/12/09 20:44	05/13/09 10:57	
BSE0116-04 (Area1-F8-7)		Soil		Sampled: 05/12/09 09:00						
Lead	EPA 6020	1.80	----	0.599	mg/kg dry	1x	9E12038	05/12/09 20:44	05/13/09 11:03	
BSE0116-05 (Area1-G8-7)		Soil		Sampled: 05/12/09 09:10						
Lead	EPA 6020	11.9	----	0.789	mg/kg dry	1x	9E12038	05/12/09 20:44	05/13/09 11:09	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/13/09 17:27

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0116-01 (Area1-E9-7)		Soil		Sampled: 05/12/09 08:30						
Benzene	EPA 8260B	ND	----	0.000951	mg/kg dry	1x	9E12027	05/12/09 16:38	05/12/09 18:38	
Ethylbenzene	"	ND	----	0.00254	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000634	"	"	"	"	"	
Naphthalene	"	ND	----	0.00634	"	"	"	"	"	
Toluene	"	ND	----	0.000951	"	"	"	"	"	
o-Xylene	"	ND	----	0.00317	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00317	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00634	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				127%		70 - 140 %	"			"
<i>Toluene-d8</i>				91.4%		70 - 130 %	"			"
<i>4-BFB</i>				111%		70 - 130 %	"			"

BSE0116-02 (Area1-F9-7)		Soil		Sampled: 05/12/09 08:40						
Benzene	EPA 8260B	ND	----	0.000999	mg/kg dry	1x	9E12027	05/12/09 16:38	05/12/09 19:04	
Ethylbenzene	"	ND	----	0.00266	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000666	"	"	"	"	"	
Naphthalene	"	ND	----	0.00666	"	"	"	"	"	
Toluene	"	ND	----	0.000999	"	"	"	"	"	
o-Xylene	"	ND	----	0.00333	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00333	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00666	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				135%		70 - 140 %	"			"
<i>Toluene-d8</i>				87.4%		70 - 130 %	"			"
<i>4-BFB</i>				101%		70 - 130 %	"			"

BSE0116-03 (Area1-G9-7)		Soil		Sampled: 05/12/09 08:50						
Benzene	EPA 8260B	ND	----	0.00136	mg/kg dry	1x	9E12027	05/12/09 16:38	05/12/09 19:30	
Ethylbenzene	"	ND	----	0.00364	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000909	"	"	"	"	"	
Naphthalene	"	ND	----	0.00909	"	"	"	"	"	
Toluene	"	ND	----	0.00136	"	"	"	"	"	
o-Xylene	"	ND	----	0.00454	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00454	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00909	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				129%		70 - 140 %	"			"
<i>Toluene-d8</i>				90.8%		70 - 130 %	"			"
<i>4-BFB</i>				103%		70 - 130 %	"			"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/13/09 17:27

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0116-04 (Area1-F8-7)		Soil		Sampled: 05/12/09 09:00						P13
Benzene	EPA 8260B	ND	----	0.000906	mg/kg dry	1x	9E12027	05/12/09 16:38	05/12/09 19:55	
Ethylbenzene	"	ND	----	0.00242	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000604	"	"	"	"	"	
Naphthalene	"	ND	----	0.00604	"	"	"	"	"	
Toluene	"	ND	----	0.000906	"	"	"	"	"	
o-Xylene	"	ND	----	0.00302	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00302	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00604	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 134% 70 - 140 % "
 Toluene-d8 87.7% 70 - 130 % "
 4-BFB 102% 70 - 130 % "

BSE0116-05 (Area1-G8-7)		Soil		Sampled: 05/12/09 09:10						
Benzene	EPA 8260B	ND	----	0.00173	mg/kg dry	1x	9E12027	05/12/09 16:38	05/12/09 20:21	
Ethylbenzene	"	ND	----	0.00461	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00115	"	"	"	"	"	
Naphthalene	"	ND	----	0.0115	"	"	"	"	"	
Toluene	"	ND	----	0.00173	"	"	"	"	"	
o-Xylene	"	ND	----	0.00577	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00577	"	"	"	"	"	
Total Xylenes	"	ND	----	0.0115	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 134% 70 - 140 % "
 Toluene-d8 86.2% 70 - 130 % "
 4-BFB 105% 70 - 130 % "

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/13/09 17:27

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0116-01 (Area1-E9-7)		Soil								Sampled: 05/12/09 08:30
Dry Weight	BSOPSP003R0 8	80.7	----	1.00	%	1x	9E12023	05/12/09 17:17	05/13/09 00:00	
BSE0116-02 (Area1-F9-7)		Soil								Sampled: 05/12/09 08:40
Dry Weight	BSOPSP003R0 8	81.7	----	1.00	%	1x	9E12023	05/12/09 17:17	05/13/09 00:00	
BSE0116-03 (Area1-G9-7)		Soil								Sampled: 05/12/09 08:50
Dry Weight	BSOPSP003R0 8	55.3	----	1.00	%	1x	9E12023	05/12/09 17:17	05/13/09 00:00	
BSE0116-04 (Area1-F8-7)		Soil								Sampled: 05/12/09 09:00
Dry Weight	BSOPSP003R0 8	81.9	----	1.00	%	1x	9E12023	05/12/09 17:17	05/13/09 00:00	
BSE0116-05 (Area1-G8-7)		Soil								Sampled: 05/12/09 09:10
Dry Weight	BSOPSP003R0 8	53.3	----	1.00	%	1x	9E12023	05/12/09 17:17	05/13/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/13/09 17:27
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E12032 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E12032-BLK1)													Extracted: 05/12/09 21:25			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/12/09 21:50			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 87.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/12/09 21:50</i>		
LCS (9E12032-BS1)													Extracted: 05/12/09 21:25			
Gasoline Range Hydrocarbons	NWTPH-Gx	49.4	1.40	5.00	mg/kg wet	1x	--	50.0	98.7%	(80-120)	--	--	05/12/09 22:23			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.2%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/12/09 22:23</i>		
Duplicate (9E12032-DUP1)													QC Source: BSE0116-01		Extracted: 05/12/09 21:25	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.82	6.49	mg/kg dry	1x	ND	--	--	--	NR (40)		05/13/09 01:40			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 108%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/13/09 01:40</i>		
Duplicate (9E12032-DUP2)													QC Source: BSE0116-02		Extracted: 05/12/09 21:25	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.83	6.52	mg/kg dry	1x	ND	--	--	--	NR (40)		05/13/09 02:13			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 106%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/13/09 02:13</i>		
Matrix Spike (9E12032-MS1)													QC Source: BSE0116-01		Extracted: 05/12/09 21:25	
Gasoline Range Hydrocarbons	NWTPH-Gx	70.0	1.82	6.49	mg/kg dry	1x	ND	53.0	132%	(75-130)	--	--	05/13/09 02:45	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 119%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/13/09 02:45</i>		

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/13/09 17:27
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E12021 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E12021-BLK1)

Extracted: 05/12/09 12:07

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/13/09 10:39	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/13/09 10:39</i>	
<i>Octacosane</i>			<i>92.3%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E12021-BS1)

Extracted: 05/12/09 12:07

Lube Oil	NWTPH-Dx	59.9	---	25.0	mg/kg wet	1x	--	66.7	89.8%	(63-125)	--	--	05/13/09 11:03	
Diesel Range Hydrocarbons	"	63.7	---	10.0	"	"	--	"	95.6%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/13/09 11:03</i>	
<i>Octacosane</i>			<i>92.8%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E12021-DUP1)

QC Source: BSE0116-01

Extracted: 05/12/09 12:07

Lube Oil	NWTPH-Dx	ND	---	30.9	mg/kg dry	1x	ND	--	--	--	(50)	--	05/13/09 11:27	R4
Kerosene	"	ND	---	12.4	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.4	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>73.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/13/09 11:27</i>	
<i>Octacosane</i>			<i>93.9%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E12021-MS1)

QC Source: BSE0116-01

Extracted: 05/12/09 12:07

Lube Oil	NWTPH-Dx	75.9	---	30.5	mg/kg dry	1x	ND	81.3	93.3%	(26-150)	--	--	05/13/09 11:51	
Diesel Range Hydrocarbons	"	80.4	---	12.2	"	"	ND	"	98.9%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>88.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/13/09 11:51</i>	
<i>Octacosane</i>			<i>94.4%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/13/09 17:27
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E12038 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E12038-BLK1)								Extracted: 05/12/09 20:44						
Lead	EPA 6020	ND	---	0.495	mg/kg wet	1x	--	--	--	--	--	--	05/13/09 08:51	
LCS (9E12038-BS1)								Extracted: 05/12/09 20:44						
Lead	EPA 6020	41.5	---	0.485	mg/kg wet	1x	--	38.8	107%	(80-120)	--	--	05/13/09 08:57	
Duplicate (9E12038-DUP1)				QC Source: BSE0107-01				Extracted: 05/12/09 20:44						
Lead	EPA 6020	3.38	---	0.495	mg/kg wet	1x	3.78	--	--	--	11.4% (20)	--	05/13/09 09:35	
Matrix Spike (9E12038-MS1)				QC Source: BSE0107-01				Extracted: 05/12/09 20:44						
Lead	EPA 6020	45.6	---	0.476	mg/kg wet	1x	3.78	38.1	110%	(75-125)	--	--	05/13/09 09:29	
Post Spike (9E12038-PS1)				QC Source: BSE0107-01				Extracted: 05/12/09 20:44						
Lead	EPA 6020	0.118	---		ug/ml	1x	0.00787	0.100	110%	(80-120)	--	--	05/13/09 09:22	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/13/09 17:27
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E12027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E12027-BLK1)													Extracted: 05/12/09 14:38			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/12/09 16:28			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 125%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>05/12/09 16:28</i>
<i>Toluene-d8</i>													<i>87.9%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>105%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9E12027-BS1)													Extracted: 05/12/09 14:38			
Benzene	EPA 8260B	0.0415	---	0.00150	mg/kg wet	1x	--	0.0500	82.9%	(70-125)	--	--	05/12/09 15:37			
Ethylbenzene	"	0.0407	---	0.00400	"	"	--	"	81.3%	"	--	--	"			
Methyl tert-butyl ether	"	0.0452	---	0.00100	"	"	--	"	90.4%	(70-130)	--	--	"			
Naphthalene	"	0.0421	---	0.0100	"	"	--	"	84.3%	"	--	--	"			
Toluene	"	0.0383	---	0.00150	"	"	--	"	76.6%	(70-125)	--	--	"			
Total Xylenes	"	0.122	---	0.0100	"	"	--	0.150	81.1%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 103%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>05/12/09 15:37</i>
<i>Toluene-d8</i>													<i>89.0%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>105%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9E12027-BS1)													Extracted: 05/12/09 14:38			
Benzene	EPA 8260B	0.0455	---	0.00150	mg/kg wet	1x	--	0.0500	91.0%	(70-125)	9.29% (30)		05/12/09 16:02			
Ethylbenzene	"	0.0446	---	0.00400	"	"	--	"	89.3%	"	9.31%	"	"			
Methyl tert-butyl ether	"	0.0487	---	0.00100	"	"	--	"	97.3%	(70-130)	7.42%	"	"			
Naphthalene	"	0.0458	---	0.0100	"	"	--	"	91.6%	"	8.35%	"	"			
Toluene	"	0.0410	---	0.00150	"	"	--	"	81.9%	(70-125)	6.74%	"	"			
Total Xylenes	"	0.136	---	0.0100	"	"	--	0.150	90.7%	(70-130)	11.1%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 107%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>05/12/09 16:02</i>
<i>Toluene-d8</i>													<i>91.9%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>98.7%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/13/09 17:27
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E12023 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E12023-BLK1)										Extracted: 05/12/09 17:17				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/13/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/13/09 17:27

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/13/09 17:27

Notes and Definitions

Report Specific Notes:

- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Curtis D. Armstrong For Kate Haney, Project Manager

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May 15, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/14/09 17:15.
The following list is a summary of the Work Orders contained in this report, generated on 05/15/09
15:13.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0156	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/15/09 15:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-C1-4	BSE0156-01	Soil	05/14/09 10:10	05/14/09 17:15
Area1-D1-7	BSE0156-02	Soil	05/14/09 13:00	05/14/09 17:15
Area1-D1-4	BSE0156-03	Soil	05/14/09 13:10	05/14/09 17:15

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/15/09 15:13

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0156-01 (Area1-C1-4)		Soil		Sampled: 05/14/09 10:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.07	7.39	mg/kg dry	1x	9E14040	05/14/09 16:32	05/15/09 00:06	
<i>Surrogate(s): 4-BFB (FID)</i>			115%		75 - 140 %	"				"
BSE0156-02 (Area1-D1-7)		Soil		Sampled: 05/14/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.02	7.22	mg/kg dry	1x	9E14040	05/14/09 16:32	05/15/09 00:36	
<i>Surrogate(s): 4-BFB (FID)</i>			110%		75 - 140 %	"				"
BSE0156-03 (Area1-D1-4)		Soil		Sampled: 05/14/09 13:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.87	6.66	mg/kg dry	1x	9E14040	05/14/09 16:32	05/15/09 01:06	
<i>Surrogate(s): 4-BFB (FID)</i>			103%		75 - 140 %	"				"

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/15/09 15:13

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0156-01 (Area1-C1-4)		Soil		Sampled: 05/14/09 10:10						
Lube Oil	NWTPH-Dx	ND	----	33.2	mg/kg dry	1x	9E14029	05/14/09 13:33	05/15/09 11:55	
Kerosene	"	ND	----	13.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.2%		54 - 148 %	"				"
<i>Octacosane</i>			112%		62 - 142 %	"				"
BSE0156-02 (Area1-D1-7)		Soil		Sampled: 05/14/09 13:00						
Lube Oil	NWTPH-Dx	ND	----	32.0	mg/kg dry	1x	9E14029	05/14/09 13:33	05/15/09 12:19	
Kerosene	"	ND	----	12.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			95.3%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"
BSE0156-03 (Area1-D1-4)		Soil		Sampled: 05/14/09 13:10						
Lube Oil	NWTPH-Dx	ND	----	30.5	mg/kg dry	1x	9E14029	05/14/09 13:33	05/15/09 12:42	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.2%		54 - 148 %	"				"
<i>Octacosane</i>			111%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/15/09 15:13

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0156-01 (Area1-C1-4)		Soil		Sampled: 05/14/09 10:10						
Lead	EPA 6020	6.25	----	0.632	mg/kg dry	1x	9E14053	05/14/09 22:26	05/15/09 06:53	
BSE0156-02 (Area1-D1-7)		Soil		Sampled: 05/14/09 13:00						
Lead	EPA 6020	159	----	0.642	mg/kg dry	1x	9E14053	05/14/09 22:26	05/15/09 06:59	
BSE0156-03 (Area1-D1-4)		Soil		Sampled: 05/14/09 13:10						
Lead	EPA 6020	4.24	----	0.595	mg/kg dry	1x	9E14053	05/14/09 22:26	05/15/09 07:25	

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Curtis D. Armstrong For Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/15/09 15:13

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0156-01 (Area1-C1-4)

Soil

Sampled: 05/14/09 10:10

Benzene	EPA 8260B	ND	----	0.00119	mg/kg dry	1x	9E14045	05/14/09 18:05	05/14/09 19:29	
Ethylbenzene	"	ND	----	0.00318	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000795	"	"	"	"	"	
Naphthalene	"	ND	----	0.00795	"	"	"	"	"	
Toluene	"	ND	----	0.00119	"	"	"	"	"	
o-Xylene	"	ND	----	0.00397	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00397	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00795	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4
 Toluene-d8
 4-BFB

115%
 101%
 104%

70 - 140 %
 70 - 130 %
 70 - 130 %

"
 "
 "

"
 "
 "

BSE0156-02 (Area1-D1-7)

Soil

Sampled: 05/14/09 13:00

Benzene	EPA 8260B	ND	----	0.00105	mg/kg dry	1x	9E14045	05/14/09 18:05	05/14/09 19:54	
Ethylbenzene	"	ND	----	0.00279	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000698	"	"	"	"	"	
Naphthalene	"	ND	----	0.00698	"	"	"	"	"	
Toluene	"	ND	----	0.00105	"	"	"	"	"	
o-Xylene	"	ND	----	0.00349	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00349	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00698	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4
 Toluene-d8
 4-BFB

122%
 101%
 104%

70 - 140 %
 70 - 130 %
 70 - 130 %

"
 "
 "

"
 "
 "

BSE0156-03 (Area1-D1-4)

Soil

Sampled: 05/14/09 13:10

Benzene	EPA 8260B	ND	----	0.00112	mg/kg dry	1x	9E14045	05/14/09 18:05	05/14/09 20:20	
Ethylbenzene	"	ND	----	0.00299	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000747	"	"	"	"	"	
Naphthalene	"	ND	----	0.00747	"	"	"	"	"	
Toluene	"	ND	----	0.00112	"	"	"	"	"	
o-Xylene	"	ND	----	0.00374	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00374	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00747	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4
 Toluene-d8
 4-BFB

129%
 98.7%
 97.5%

70 - 140 %
 70 - 130 %
 70 - 130 %

"
 "
 "

"
 "
 "

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Curtis D. Armstrong For Kate Haney, Project Manager

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0156-01 (Area1-C1-4)		Soil			Sampled: 05/14/09 10:10					
Dry Weight	BSOPSP003R0 8	74.6	----	1.00	%	1x	9E14043	05/14/09 18:09	05/15/09 00:00	
BSE0156-02 (Area1-D1-7)		Soil			Sampled: 05/14/09 13:00					
Dry Weight	BSOPSP003R0 8	77.9	----	1.00	%	1x	9E14043	05/14/09 18:09	05/15/09 00:00	
BSE0156-03 (Area1-D1-4)		Soil			Sampled: 05/14/09 13:10					
Dry Weight	BSOPSP003R0 8	80.8	----	1.00	%	1x	9E14043	05/14/09 18:09	05/15/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E14040 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E14040-BLK1)													Extracted: 05/14/09 15:00			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/14/09 15:33			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 88.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/14/09 15:33</i>		
LCS (9E14040-BS1)													Extracted: 05/14/09 15:00			
Gasoline Range Hydrocarbons	NWTPH-Gx	52.4	1.40	5.00	mg/kg wet	1x	--	50.0	105%	(80-120)	--	--	05/14/09 16:03			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 112%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/14/09 16:03</i>		
Duplicate (9E14040-DUP1)													QC Source: BSE0133-01		Extracted: 05/14/09 15:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.20	4.28	mg/kg wet	1x	ND	--	--	--	NR (40)		05/14/09 17:34			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.5%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/14/09 17:34</i>		
Duplicate (9E14040-DUP2)													QC Source: BSE0148-01		Extracted: 05/14/09 15:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	5.76	2.34	8.36	mg/kg dry	1x	5.19	--	--	--	10.3% (40)		05/14/09 18:35	J		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 122%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/14/09 18:35</i>		
Matrix Spike (9E14040-MS1)													QC Source: BSE0133-01		Extracted: 05/14/09 15:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	50.0	1.20	4.28	mg/kg wet	1x	ND	42.8	117%	(75-130)	--	--	05/14/09 20:35			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 114%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/14/09 20:35</i>		

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Curtis D. Armstrong For Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 05/15/09 15:13

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E14029 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E14029-BLK1)													Extracted: 05/14/09 12:33	
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/15/09 09:47	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>80.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/15/09 09:47</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	
LCS (9E14029-BS1)													Extracted: 05/14/09 12:33	
Lube Oil	NWTPH-Dx	62.0	---	25.0	mg/kg wet	1x	--	66.7	93.1%	(63-125)	--	--	05/15/09 10:20	
Diesel Range Hydrocarbons	"	71.6	---	10.0	"	"	--	"	107%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/15/09 10:20</i>	
<i>Octacosane</i>			<i>105%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	
Duplicate (9E14029-DUP1)													QC Source: BSE0156-01 Extracted: 05/14/09 12:33	
Lube Oil	NWTPH-Dx	ND	---	33.2	mg/kg dry	1x	ND	--	--	--	8.93% (50)		05/15/09 10:43	
Kerosene	"	ND	---	13.3	"	"	ND	--	--	--	"		"	R4
Diesel Range Hydrocarbons	"	ND	---	13.3	"	"	ND	--	--	--	NR		"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/15/09 10:43</i>	
<i>Octacosane</i>			<i>114%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	
Duplicate (9E14029-DUP2)													QC Source: BSE0156-02 Extracted: 05/14/09 12:33	
Lube Oil	NWTPH-Dx	ND	---	31.8	mg/kg dry	1x	ND	--	--	--	61.3% (50)		05/15/09 11:07	R4
Kerosene	"	ND	---	12.7	"	"	ND	--	--	--	"		"	R4
Diesel Range Hydrocarbons	"	ND	---	12.7	"	"	ND	--	--	--	68.0%		"	R4
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/15/09 11:07</i>	
<i>Octacosane</i>			<i>107%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	
Matrix Spike (9E14029-MS1)													QC Source: BSE0156-01 Extracted: 05/14/09 12:33	
Lube Oil	NWTPH-Dx	84.9	---	33.1	mg/kg dry	1x	8.01	88.2	87.3%	(26-150)	--	--	05/15/09 11:31	
Diesel Range Hydrocarbons	"	91.7	---	13.2	"	"	ND	"	104%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/15/09 11:31</i>	
<i>Octacosane</i>			<i>107%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E14053 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E14053-BLK1)								Extracted: 05/14/09 22:26						
Lead	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	05/15/09 06:22	
LCS (9E14053-BS1)								Extracted: 05/14/09 22:26						
Lead	EPA 6020	42.4	---	0.500	mg/kg wet	1x	--	40.0	106%	(80-120)	--	--	05/15/09 06:28	
Duplicate (9E14053-DUP1)				QC Source: BSE0156-01				Extracted: 05/14/09 22:26						
Lead	EPA 6020	6.66	---	0.644	mg/kg dry	1x	6.25	--	--	--	6.35% (20)	--	05/15/09 06:40	
Matrix Spike (9E14053-MS1)				QC Source: BSE0156-01				Extracted: 05/14/09 22:26						
Lead	EPA 6020	62.6	---	0.677	mg/kg dry	1x	6.25	54.1	104%	(75-125)	--	--	05/15/09 06:34	
Post Spike (9E14053-PS1)				QC Source: BSE0156-01				Extracted: 05/14/09 22:26						
Lead	EPA 6020	0.119	---		ug/ml	1x	0.00989	0.100	108%	(80-120)	--	--	05/15/09 06:47	

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Curtis D. Armstrong For Kate Haney, Project Manager

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E14045 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E14045-BLK1)													Extracted: 05/14/09 15:05	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/14/09 17:43	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>124%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/14/09 17:43</i>	
<i>Toluene-d8</i>		<i>95.7%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>97.6%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E14045-BS1)													Extracted: 05/14/09 15:05	
Benzene	EPA 8260B	0.0501	---	0.00150	mg/kg wet	1x	--	0.0500	100%	(70-125)	--	--	05/14/09 16:26	
Ethylbenzene	"	0.0417	---	0.00400	"	"	--	"	83.4%	"	--	--	"	
Methyl tert-butyl ether	"	0.0482	---	0.00100	"	"	--	"	96.4%	(70-130)	--	--	"	
Naphthalene	"	0.0449	---	0.0100	"	"	--	"	89.9%	"	--	--	"	
Toluene	"	0.0421	---	0.00150	"	"	--	"	84.3%	(70-125)	--	--	"	
Total Xylenes	"	0.124	---	0.0100	"	"	--	0.150	82.9%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/14/09 16:26</i>	
<i>Toluene-d8</i>		<i>94.1%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>104%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E14045-BSD1)													Extracted: 05/14/09 15:05	
Benzene	EPA 8260B	0.0535	---	0.00150	mg/kg wet	1x	--	0.0500	107%	(70-125)	6.45% (30)		05/14/09 16:52	
Ethylbenzene	"	0.0474	---	0.00400	"	"	--	"	94.9%	"	12.9%	"	"	
Methyl tert-butyl ether	"	0.0535	---	0.00100	"	"	--	"	107%	(70-130)	10.4%	"	"	
Naphthalene	"	0.0507	---	0.0100	"	"	--	"	101%	"	12.0%	"	"	
Toluene	"	0.0469	---	0.00150	"	"	--	"	93.8%	(70-125)	10.7%	"	"	
Total Xylenes	"	0.143	---	0.0100	"	"	--	0.150	95.1%	(70-130)	13.7%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/14/09 16:52</i>	
<i>Toluene-d8</i>		<i>97.5%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>102%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/15/09 15:13
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E14043 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E14043-BLK1)										Extracted: 05/14/09 18:09				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/15/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/15/09 15:13

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/15/09 15:13

Notes and Definitions

Report Specific Notes:

- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances? Circle Y or N
 Page Time & Initials: _____ (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt) _____
 Date: 5/14 Date: 5/14 Date: 5/14 Date: _____ *Taken away* Work Order No. BAF1154
 Time: 17:15 Time: 17:26 Time: 17:35 Time: _____ Client: _____
 Initials: CL Initials: CL Initials: CL Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs _____
 _____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex. _____ Client _____
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier _____
 _____ None/Other _____ Initial/date/time CL _____ DHL _____ Mid Valley _____
 _____ GS _____ Senvoy _____ TDP _____
 _____ Other _____

Cooler Temperature (IR): _____ °C Plastic, Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 6.0 °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ ID _____ ID _____
 Intact? or N _____ Metals Preserved? Y or N or NA _____
 Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA _____
 Correct Type? or N _____ Adequate Volume? or N _____
 (for tests requested)
 #Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA _____
 IDs/time/date match COC? or N _____ Comments: _____
 Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? Y or N

May 18, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/15/09 17:15.
The following list is a summary of the Work Orders contained in this report, generated on 05/18/09
18:08.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0174	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/18/09 18:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-E1-7	BSE0174-01	Soil	05/15/09 08:30	05/15/09 17:15
Area1-E1-4	BSE0174-02	Soil	05/15/09 08:40	05/15/09 17:15
Area1-F1-7	BSE0174-03	Soil	05/15/09 10:40	05/15/09 17:15

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/18/09 18:08
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0174-01 (Area1-E1-7)		Soil			Sampled: 05/15/09 08:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	10.2	2.45	8.75	mg/kg dry	1x	9E18005	05/18/09 06:38	05/18/09 13:38	
<i>Surrogate(s): 4-BFB (FID)</i>			113%		75 - 140 %	"				"
BSE0174-02 (Area1-E1-4)		Soil			Sampled: 05/15/09 08:40					
Gasoline Range Hydrocarbons	NWTPH-Gx	2.27	2.10	7.51	mg/kg dry	1x	9E18005	05/18/09 06:38	05/18/09 14:44	J
<i>Surrogate(s): 4-BFB (FID)</i>			110%		75 - 140 %	"				"
BSE0174-03 (Area1-F1-7)		Soil			Sampled: 05/15/09 10:40					
Gasoline Range Hydrocarbons	NWTPH-Gx	25.4	13.9	49.5	mg/kg dry	1x	9E18005	05/18/09 06:38	05/18/09 15:17	J
<i>Surrogate(s): 4-BFB (FID)</i>			131%		75 - 140 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/18/09 18:08
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0174-01 (Area1-E1-7)		Soil		Sampled: 05/15/09 08:30						
Lube Oil	NWTPH-Dx	ND	----	34.0	mg/kg dry	1x	9E15044	05/15/09 18:52	05/16/09 00:13	
Kerosene	"	ND	----	13.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.9%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"
BSE0174-02 (Area1-E1-4)		Soil		Sampled: 05/15/09 08:40						
Lube Oil	NWTPH-Dx	ND	----	32.7	mg/kg dry	1x	9E15044	05/15/09 18:52	05/16/09 00:37	
Kerosene	"	ND	----	13.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.0%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"
BSE0174-03 (Area1-F1-7)		Soil		Sampled: 05/15/09 10:40						
Lube Oil	NWTPH-Dx	158	----	106	mg/kg dry	1x	9E15044	05/15/09 18:52	05/16/09 01:00	Q1
Kerosene	"	140	----	42.4	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	308	----	42.4	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>			88.5%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/18/09 18:08

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0174-01 (Area1-E1-7)		Soil		Sampled: 05/15/09 08:30						
Lead	EPA 6020	3.86	----	0.474	mg/kg dry	1x	9E18001	05/18/09 06:04	05/18/09 10:46	
BSE0174-02 (Area1-E1-4)		Soil		Sampled: 05/15/09 08:40						
Lead	EPA 6020	4.38	----	0.519	mg/kg dry	1x	9E18001	05/18/09 06:04	05/18/09 10:52	
BSE0174-03 (Area1-F1-7)		Soil		Sampled: 05/15/09 10:40						
Lead	EPA 6020	15.0	----	1.50	mg/kg dry	1x	9E18001	05/18/09 06:04	05/18/09 10:58	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/18/09 18:08
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0174-01 (Area1-E1-7)		Soil		Sampled: 05/15/09 08:30						
Benzene	EPA 8260B	0.00178	----	0.00142	mg/kg dry	1x	9E15033	05/15/09 17:33	05/15/09 18:31	
Ethylbenzene	"	ND	----	0.00378	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000946	"	"	"	"	"	
Naphthalene	"	ND	----	0.00946	"	"	"	"	"	
Toluene	"	ND	----	0.00142	"	"	"	"	"	
o-Xylene	"	ND	----	0.00473	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00473	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00946	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			133%		70 - 140 %	"				"
<i>Toluene-d8</i>			103%		70 - 130 %	"				"
<i>4-BFB</i>			104%		70 - 130 %	"				"
BSE0174-02 (Area1-E1-4)		Soil		Sampled: 05/15/09 08:40						
Benzene	EPA 8260B	ND	----	0.00114	mg/kg dry	1x	9E15033	05/15/09 17:33	05/15/09 18:57	
Ethylbenzene	"	ND	----	0.00304	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000760	"	"	"	"	"	
Naphthalene	"	ND	----	0.00760	"	"	"	"	"	
Toluene	"	ND	----	0.00114	"	"	"	"	"	
o-Xylene	"	ND	----	0.00380	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00380	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00760	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			133%		70 - 140 %	"				"
<i>Toluene-d8</i>			98.4%		70 - 130 %	"				"
<i>4-BFB</i>			106%		70 - 130 %	"				"
BSE0174-03 (Area1-F1-7)		Soil		Sampled: 05/15/09 10:40						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00321	mg/kg dry	1x	9E15033	05/15/09 17:33	05/15/09 19:23	
Naphthalene	"	ND	----	0.0321	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			127%		70 - 140 %	"				I
<i>Toluene-d8</i>			126%		70 - 130 %	"				I
<i>4-BFB</i>			124%		70 - 130 %	"				I

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/18/09 18:08

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0174-03	(Area1-F1-7)	Soil		Sampled: 05/15/09 10:40						
Benzene	EPA 8260B	5.99	0.0989	0.198	mg/kg dry	1x	9E15037	05/15/09 18:30	05/16/09 03:45	
Ethylbenzene	"	ND	0.119	0.989	"	"	"	"	"	"
Toluene	"	ND	0.0989	0.989	"	"	"	"	"	"
o-Xylene	"	ND	0.168	0.989	"	"	"	"	"	"
m,p-Xylene	"	ND	0.208	1.98	"	"	"	"	"	"
Xylenes (total)	"	ND	0.307	2.97	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		92.0%		75 - 125 %	"				"
	<i>Toluene-d8</i>		103%		75 - 125 %	"				"
	<i>4-BFB</i>		98.2%		75 - 125 %	"				"

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0174-01 (Area1-E1-7)		Soil			Sampled: 05/15/09 08:30					
Dry Weight	BSOPSP003R0 8	72.7	----	1.00	%	1x	9E15031	05/15/09 12:40	05/18/09 00:00	
BSE0174-02 (Area1-E1-4)		Soil			Sampled: 05/15/09 08:40					
Dry Weight	BSOPSP003R0 8	75.9	----	1.00	%	1x	9E15031	05/15/09 12:40	05/18/09 00:00	
BSE0174-03 (Area1-F1-7)		Soil			Sampled: 05/15/09 10:40					
Dry Weight	BSOPSP003R0 8	23.2	----	1.00	%	1x	9E15031	05/15/09 12:40	05/18/09 00:00	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/18/09 18:08
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E18005 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E18005-BLK1)										Extracted: 05/18/09 06:38				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/18/09 13:05	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.5%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/18/09 13:05</i>
LCS (9E18005-BS1)										Extracted: 05/18/09 06:38				
Gasoline Range Hydrocarbons	NWTPH-Gx	47.5	1.40	5.00	mg/kg wet	1x	--	50.0	95.0%	(80-120)	--	--	05/18/09 12:19	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.4%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/18/09 12:19</i>
Duplicate (9E18005-DUP1)										QC Source: BSE0174-02		Extracted: 05/18/09 06:38		
Gasoline Range Hydrocarbons	NWTPH-Gx	2.43	2.10	7.51	mg/kg dry	1x	2.27	--	--	--	6.78% (40)	--	05/18/09 14:11	J
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 110%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/18/09 14:11</i>
Matrix Spike (9E18005-MS1)										QC Source: BSE0174-02		Extracted: 05/18/09 06:38		
Gasoline Range Hydrocarbons	NWTPH-Gx	76.7	2.10	7.51	mg/kg dry	1x	2.27	59.2	126%	(75-130)	--	--	05/18/09 15:51	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 123%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/18/09 15:51</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/18/09 18:08
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E15044 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E15044-BLK1)

Extracted: 05/15/09 18:52

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/15/09 22:38	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/15/09 22:38</i>	
<i>Octacosane</i>			<i>112%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E15044-BS1)

Extracted: 05/15/09 18:52

Lube Oil	NWTPH-Dx	64.1	---	25.0	mg/kg wet	1x	--	66.7	96.1%	(63-125)	--	--	05/15/09 23:02	
Diesel Range Hydrocarbons	"	69.2	---	10.0	"	"	--	"	104%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/15/09 23:02</i>	
<i>Octacosane</i>			<i>108%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E15044-DUP1)

QC Source: BSE0174-02

Extracted: 05/15/09 18:52

Lube Oil	NWTPH-Dx	ND	---	32.6	mg/kg dry	1x	ND	--	--	--	(50)	--	05/15/09 23:26	R4
Kerosene	"	ND	---	13.1	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	13.1	"	"	ND	--	--	--	"	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>92.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/15/09 23:26</i>	
<i>Octacosane</i>			<i>112%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E15044-MS1)

QC Source: BSE0174-02

Extracted: 05/15/09 18:52

Lube Oil	NWTPH-Dx	86.3	---	32.7	mg/kg dry	1x	ND	87.3	98.8%	(26-150)	--	--	05/15/09 23:49	
Diesel Range Hydrocarbons	"	91.6	---	13.1	"	"	ND	"	105%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>80.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/15/09 23:49</i>	
<i>Octacosane</i>			<i>108%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/18/09 18:08
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E18001 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E18001-BLK1)								Extracted: 05/18/09 06:04						
Lead	EPA 6020	ND	---	0.505	mg/kg wet	1x	--	--	--	--	--	--	05/18/09 10:14	
LCS (9E18001-BS1)								Extracted: 05/18/09 06:04						
Lead	EPA 6020	44.8	---	0.515	mg/kg wet	1x	--	41.2	109%	(80-120)	--	--	05/18/09 10:20	
Duplicate (9E18001-DUP1)				QC Source: BSE0174-01				Extracted: 05/18/09 06:04						
Lead	EPA 6020	4.51	---	0.498	mg/kg dry	1x	3.86	--	--	--	15.4% (20)	--	05/18/09 10:39	
Matrix Spike (9E18001-MS1)				QC Source: BSE0174-01				Extracted: 05/18/09 06:04						
Lead	EPA 6020	49.7	---	0.550	mg/kg dry	1x	3.86	44.0	104%	(75-125)	--	--	05/18/09 10:33	
Post Spike (9E18001-PS1)				QC Source: BSE0174-01				Extracted: 05/18/09 06:04						
Lead	EPA 6020	0.116	---		ug/ml	1x	0.00815	0.100	108%	(80-120)	--	--	05/18/09 10:27	

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/18/09 18:08
--	---	-----------------------------------

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E15033 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E15033-BLK1)													Extracted: 05/15/09 13:33	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/15/09 16:16	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>134%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/15/09 16:16</i>	
<i>Toluene-d8</i>			<i>97.0%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>99.4%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E15033-BS1)													Extracted: 05/15/09 13:33	
Benzene	EPA 8260B	0.0467	---	0.00150	mg/kg wet	1x	--	0.0500	93.3%	(70-125)	--	--	05/15/09 15:25	
Ethylbenzene	"	0.0453	---	0.00400	"	"	--	"	90.7%	"	--	--	"	
Methyl tert-butyl ether	"	0.0454	---	0.00100	"	"	--	"	90.7%	(70-130)	--	--	"	
Naphthalene	"	0.0450	---	0.0100	"	"	--	"	90.0%	"	--	--	"	
Toluene	"	0.0435	---	0.00150	"	"	--	"	87.1%	(70-125)	--	--	"	
Total Xylenes	"	0.133	---	0.0100	"	"	--	0.150	88.8%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/15/09 15:25</i>	
<i>Toluene-d8</i>			<i>99.0%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E15033-BS1)													Extracted: 05/15/09 13:33	
Benzene	EPA 8260B	0.0490	---	0.00150	mg/kg wet	1x	--	0.0500	98.0%	(70-125)	4.93% (30)	--	05/15/09 15:51	
Ethylbenzene	"	0.0460	---	0.00400	"	"	--	"	92.0%	"	1.47%	"	"	
Methyl tert-butyl ether	"	0.0445	---	0.00100	"	"	--	"	88.9%	(70-130)	2.00%	"	"	
Naphthalene	"	0.0457	---	0.0100	"	"	--	"	91.4%	"	1.48%	"	"	
Toluene	"	0.0463	---	0.00150	"	"	--	"	92.6%	(70-125)	6.17%	"	"	
Total Xylenes	"	0.137	---	0.0100	"	"	--	0.150	91.6%	(70-130)	3.10%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/15/09 15:51</i>	
<i>Toluene-d8</i>			<i>98.8%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>103%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/18/09 18:08

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9E15037

Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E15037-BLK1)													Extracted: 05/15/09 18:30	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	05/16/09 02:25	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 93.0% Limits: 75-125% "														
Toluene-d8 Recovery: 107% 75-125% "														
4-BFB Recovery: 103% 75-125% "														

LCS (9E15037-BS1)

Extracted: 05/15/09 18:30

Benzene	EPA 8260B	4.31	0.0100	0.0200	mg/kg wet	1x	--	4.00	108%	(75-125)	--	--	05/16/09 00:56	
Ethylbenzene	"	4.02	0.0120	0.100	"	"	--	"	100%	"	--	--	"	
Methyl tert-butyl ether	"	3.83	0.0100	0.0500	"	"	--	"	95.7%	"	--	--	"	
Naphthalene	"	3.94	1.10	2.00	"	"	--	"	98.5%	(60-140)	--	--	"	
Toluene	"	4.07	0.0100	0.100	"	"	--	"	102%	(75-125)	--	--	"	
o-Xylene	"	4.22	0.0170	0.100	"	"	--	"	105%	"	--	--	"	
m,p-Xylene	"	8.54	0.0210	0.200	"	"	--	8.00	107%	"	--	--	"	
Xylenes (total)	"	12.8	0.0310	0.300	"	"	--	12.0	106%	"	--	--	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 100% Limits: 75-125% "														
Toluene-d8 Recovery: 101% 75-125% "														
4-BFB Recovery: 99.8% 75-125% "														

LCS Dup (9E15037-BSD1)

Extracted: 05/15/09 18:30

Benzene	EPA 8260B	4.55	0.0100	0.0200	mg/kg wet	1x	--	4.00	114%	(75-125)	5.44% (20)		05/16/09 01:23	
Ethylbenzene	"	4.14	0.0120	0.100	"	"	--	"	103%	"	2.89%	"	"	
Methyl tert-butyl ether	"	4.02	0.0100	0.0500	"	"	--	"	101%	"	4.97%	"	"	
Naphthalene	"	4.07	1.10	2.00	"	"	--	"	102%	(60-140)	3.34%	"	"	
Toluene	"	4.18	0.0100	0.100	"	"	--	"	105%	(75-125)	2.71%	"	"	
o-Xylene	"	4.23	0.0170	0.100	"	"	--	"	106%	"	0.355%	"	"	
m,p-Xylene	"	8.54	0.0210	0.200	"	"	--	8.00	107%	"	0.00%	"	"	
Xylenes (total)	"	12.8	0.0310	0.300	"	"	--	12.0	106%	"	0.117%	"	"	
Surrogate(s): 1,2-DCA-d4 Recovery: 100% Limits: 75-125% "														
Toluene-d8 Recovery: 102% 75-125% "														
4-BFB Recovery: 101% 75-125% "														

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/18/09 18:08
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E15031 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E15031-BLK1)										Extracted: 05/15/09 12:40				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/18/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/18/09 18:08

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/18/09 18:08

Notes and Definitions

Report Specific Notes:

- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- Q1 - Does not match typical pattern
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____

Paperwork to PM – Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or **N**

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: (applies to temp at receipt)	Logged-in By:	Unpacked/ Labeled by:	Label Review by:	Cooler ID: _____
Date: <u>5/15</u>	Date: <u>5/15</u>	Date: <u>5/15</u>	Date: _____	Work Order No. <u>BDF0174</u>
Time: <u>1715</u>	Time: <u>17:52</u>	Time: <u>16:00</u>	Time: _____	Client: _____
Initials: <u>EL</u>	Initials: <u>CL</u>	Initials: <u>CL</u>	Initials: _____	Project: _____

<u>Container Type:</u>	<u>COC Seals:</u>	<u>Packing Material:</u>
<input checked="" type="checkbox"/> Cooler	____ Ship Container	____ Bubble Bags
____ Box	____ On Bottles	<input checked="" type="checkbox"/> Foam Packs
____ None/Other _____	<input checked="" type="checkbox"/> None	____ None/Other _____

<u>Refrigerant:</u>	<u>Soil Stir Bars/Encores:</u>	<u>Received Via: Bill#:</u>
<input checked="" type="checkbox"/> Gel Ice Pack	Placed in freezer #46:	____ Fed Ex
____ Loose Ice	<input checked="" type="radio"/> Y or N or NA	____ UPS
____ None/Other _____	Initial/date/time <u>by Keith</u>	<input checked="" type="checkbox"/> TA Courier
		____ DHL
		____ Senvoy
		____ GS

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 6.0 Y or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

<u>Sample Containers:</u>	<u>ID</u>	<u>ID</u>
Intact? <input checked="" type="radio"/> Y or N	_____	Metals Preserved? Y or N or <input checked="" type="radio"/> NA
Provided by TA? <input checked="" type="radio"/> Y or N	_____	Client QAPP Preserved? Y or N or <input checked="" type="radio"/> NA
Correct Type? <input checked="" type="radio"/> Y or N	_____	Adequate Volume? <input checked="" type="radio"/> Y or N
#Containers match COC? <input checked="" type="radio"/> Y or N	_____	(for tests requested)
IDs/time/date match COC? <input checked="" type="radio"/> Y or N	_____	Water VOAs: Headspace? Y or N or <input checked="" type="radio"/> NA
Hold Times in hold? <input checked="" type="radio"/> Y or N	_____	Comments: _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? Y or N

May 20, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/19/09 17:30.
The following list is a summary of the Work Orders contained in this report, generated on 05/20/09
16:04.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0200	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/20/09 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-H1-4	BSE0200-01	Soil	05/19/09 11:30	05/19/09 17:30

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/20/09 16:04
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0200-01 (Area1-H1-4)		Soil			Sampled: 05/19/09 11:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.97	7.03	mg/kg dry	1x	9E19037	05/19/09 14:30	05/20/09 01:37	
Surrogate(s): 4-BFB (FID)			86.1%		75 - 140 %	"				"

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/20/09 16:04

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0200-01 (Area1-H1-4)		Soil			Sampled: 05/19/09 11:30					
Lube Oil	NWTPH-Dx	ND	----	32.0	mg/kg dry	1x	9E19052	05/19/09 18:21	05/20/09 00:08	
Kerosene	"	ND	----	12.8	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	12.8	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>2-FBP</i>			77.2%		54 - 148 %	"			"
	<i>Octacosane</i>			84.7%		62 - 142 %	"			"

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:
 05/20/09 16:04

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0200-01	(Area1-H1-4)									
			Soil				Sampled: 05/19/09 11:30			
Lead	EPA 6020	2.44	----	0.611	mg/kg dry	1x	9E19060	05/19/09 22:28	05/20/09 10:27	

TestAmerica Seattle



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/20/09 16:04
--	---	-----------------------------------

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0200-01 (Area1-H1-4)		Soil			Sampled: 05/19/09 11:30					
Benzene	EPA 8260B	ND	----	0.00114	mg/kg dry	1x	9E19022	05/19/09 15:23	05/19/09 22:21	
Ethylbenzene	"	ND	----	0.00304	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.000760	"	"	"	"	"	"
Naphthalene	"	ND	----	0.00760	"	"	"	"	"	"
Toluene	"	ND	----	0.00114	"	"	"	"	"	"
o-Xylene	"	ND	----	0.00380	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.00380	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.00760	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>140%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>99.4%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>99.8%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/20/09 16:04
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0200-01	(Area1-H1-4)									
		Soil			Sampled: 05/19/09 11:30					
Dry Weight	BSOPSPL003R0 8	77.9	----	1.00	%	1x	9E19053	05/19/09 18:22	05/20/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/20/09 16:04
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19037 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E19037-BLK1)													Extracted: 05/19/09 14:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/19/09 15:33	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 77.6%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/19/09 15:33</i>
LCS (9E19037-BS1)													Extracted: 05/19/09 14:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	53.4	1.40	5.00	mg/kg wet	1x	--	50.0	107%	(80-120)	--	--	05/19/09 16:03	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 105%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/19/09 16:03</i>
Duplicate (9E19037-DUP1)													QC Source: BSE0184-01 Extracted: 05/19/09 14:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	4.17	1.16	4.15	mg/kg wet	1x	3.50	--	--	--	17.5% (40)		05/19/09 17:03	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 89.7%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/19/09 17:03</i>
Duplicate (9E19037-DUP2)													QC Source: BSE0184-02 Extracted: 05/19/09 14:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.53	5.47	mg/kg wet	1x	ND	--	--	--	NR (40)		05/19/09 18:03	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 80.9%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/19/09 18:03</i>
Matrix Spike (9E19037-MS1)													QC Source: BSE0184-01 Extracted: 05/19/09 14:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	44.5	1.16	4.15	mg/kg wet	1x	3.50	41.5	98.8%	(75-130)	--	--	05/19/09 20:04	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 108%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/19/09 20:04</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/20/09 16:04
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19052 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E19052-BLK1)

Extracted: 05/19/09 18:21

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/19/09 21:04	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery:	76.5%	Limits: 54-148%		"							05/19/09 21:04	
Octacosane			88.9%	62-142%		"							"	

LCS (9E19052-BS1)

Extracted: 05/19/09 18:21

Lube Oil	NWTPH-Dx	59.6	---	25.0	mg/kg wet	1x	--	66.7	89.4%	(63-125)	--	--	05/19/09 21:50	
Diesel Range Hydrocarbons	"	64.3	---	10.0	"	"	--	"	96.5%	(58-140)	--	--	"	
Surrogate(s): 2-FBP		Recovery:	82.3%	Limits: 54-148%		"							05/19/09 21:50	
Octacosane			88.8%	62-142%		"							"	

Duplicate (9E19052-DUP1)

QC Source: BSE0200-01

Extracted: 05/19/09 18:21

Lube Oil	NWTPH-Dx	ND	---	31.9	mg/kg dry	1x	ND	--	--	--	(50)	--	05/19/09 22:36	R4
Kerosene	"	ND	---	12.7	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.7	"	"	ND	--	--	--	NR	--	"	
Surrogate(s): 2-FBP		Recovery:	74.0%	Limits: 54-148%		"							05/19/09 22:36	
Octacosane			87.3%	62-142%		"							"	

Matrix Spike (9E19052-MS1)

QC Source: BSE0200-01

Extracted: 05/19/09 18:21

Lube Oil	NWTPH-Dx	72.5	---	31.9	mg/kg dry	1x	ND	85.0	85.3%	(26-150)	--	--	05/19/09 23:23	
Diesel Range Hydrocarbons	"	82.9	---	12.7	"	"	ND	"	97.6%	(46-155)	--	--	"	
Surrogate(s): 2-FBP		Recovery:	83.9%	Limits: 54-148%		"							05/19/09 23:23	
Octacosane			85.6%	62-142%		"							"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/20/09 16:04
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19060 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E19060-BLK1)								Extracted: 05/19/09 22:28						
Lead	EPA 6020	ND	---	0.505	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 09:56	
LCS (9E19060-BS1)								Extracted: 05/19/09 22:28						
Lead	EPA 6020	39.7	---	0.495	mg/kg wet	1x	--	39.6	100%	(80-120)	--	--	05/20/09 10:02	
Duplicate (9E19060-DUP1)				QC Source: BSE0200-01				Extracted: 05/19/09 22:28						
Lead	EPA 6020	2.09	---	0.611	mg/kg dry	1x	2.44	--	--	--	15.6% (20)	--	05/20/09 10:21	
Matrix Spike (9E19060-MS1)				QC Source: BSE0200-01				Extracted: 05/19/09 22:28						
Lead	EPA 6020	52.3	---	0.623	mg/kg dry	1x	2.44	49.8	100%	(75-125)	--	--	05/20/09 10:15	
Post Spike (9E19060-PS1)				QC Source: BSE0200-01				Extracted: 05/19/09 22:28						
Lead	EPA 6020	0.109	---		ug/ml	1x	0.00400	0.100	105%	(80-120)	--	--	05/20/09 10:08	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/20/09 16:04
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E19022-BLK1)													Extracted: 05/19/09 14:23	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/19/09 16:22	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>124%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/19/09 16:22</i>	
<i>Toluene-d8</i>			<i>96.7%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.3%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E19022-BS1)													Extracted: 05/19/09 14:23	
Benzene	EPA 8260B	0.0473	---	0.00150	mg/kg wet	1x	--	0.0500	94.7%	(70-125)	--	--	05/19/09 15:31	
Ethylbenzene	"	0.0449	---	0.00400	"	"	--	"	89.7%	"	--	--	"	
Methyl tert-butyl ether	"	0.0457	---	0.00100	"	"	--	"	91.5%	(70-130)	--	--	"	
Naphthalene	"	0.0469	---	0.0100	"	"	--	"	93.9%	"	--	--	"	
Toluene	"	0.0443	---	0.00150	"	"	--	"	88.6%	(70-125)	--	--	"	
Total Xylenes	"	0.133	---	0.0100	"	"	--	0.150	88.4%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/19/09 15:31</i>	
<i>Toluene-d8</i>			<i>100%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>104%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E19022-BS1)													Extracted: 05/19/09 14:23	
Benzene	EPA 8260B	0.0531	---	0.00150	mg/kg wet	1x	--	0.0500	106%	(70-125)	11.5%	(30)	05/19/09 15:56	
Ethylbenzene	"	0.0510	---	0.00400	"	"	--	"	102%	"	12.9%	"	"	
Methyl tert-butyl ether	"	0.0487	---	0.00100	"	"	--	"	97.4%	(70-130)	6.29%	"	"	
Naphthalene	"	0.0510	---	0.0100	"	"	--	"	102%	"	8.35%	"	"	
Toluene	"	0.0482	---	0.00150	"	"	--	"	96.3%	(70-125)	8.39%	"	"	
Total Xylenes	"	0.150	---	0.0100	"	"	--	0.150	99.9%	(70-130)	12.2%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/19/09 15:56</i>	
<i>Toluene-d8</i>			<i>99.9%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/20/09 16:04
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19053 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E19053-BLK1)										Extracted: 05/19/09 18:22				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/20/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/20/09 16:04

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/20/09 16:04

Notes and Definitions

Report Specific Notes:

R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: *BAF000*

CLIENT: CONOCO PHILLIPS		INVOICE TO: <i>CP</i>		TURNAROUND REQUEST			
REPORT TO: WMLP Staff		P.O. NUMBER:		in Business Days *			
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses			
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses			
PROJECT NAME: WMLP Phase II				STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1			
PROJECT NUMBER:				Specify: OTHER <i>24-h</i>			
SAMPLED BY: Matthew McKibbin				* Turnaround Requests less than standard may incur Rush Charges.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 Areal-HI-4	5-19-09 / 1130	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	4	Sand + Sil	01
2							
3							
4							
5							
6							
7							
8							
9							
10							
RELEASED BY: <i>Matthew McKibbin</i>		DATE: 5-19-09	RECEIVED BY: <i>[Signature]</i>	DATE: 5/19/09			
PRINT NAME: Matthew McKibbin		TIME: 1430	PRINT NAME: Francisco Lunny Jr.	FIRM: TA-SEA		TIME: 1600	
FIRM: was		DATE:	PRINT NAME:	FIRM:		DATE:	
FIRM:		TIME:	PRINT NAME:	FIRM:		TIME:	
ADDITIONAL REMARKS:		TEMP: HP PAGE 1 OF 1					
<p><i>TCUP all samples w/ total lead 2 500mg/kg</i></p> <p><i>* Sample #161 COL = Areal-HI-4 @ 1130 - mean</i></p> <p><i>@ lab 17:30</i></p>		<p>TAL-1000(0408)</p>					

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances? Circle Y or N
 Page Time & Initials: _____ (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: (applies to temp at receipt) **Logged-in By:** **Unpacked/Labeled by:** **Label Review by:** **Cooler ID:** _____
 Date: 5/19 Date: 5/19 Date: 5/19 Date: _____ } *Take away*
 Time: 17:30 Time: 17:35 Time: 17:35 Time: _____ } Work Order No. BAL 0200
 Initials: CL Initials: CL Initials: CL Initials: _____ } Client: _____
 Initials: _____ Initials: _____ Initials: _____ Initials: _____ } Project: _____

Container Type: Cooler Ship Container Sign By Bubble Bags Styrofoam
 Box On Bottles Date Foam Packs
 None/Other None None/Other _____

Refrigerant: Gel Ice Pack _____ **Soil Stir Bars/Encores:** **Received Via: Bill#:**
 Loose Ice _____ Placed in freezer #46: _____ Fed Ex Client
 None/Other _____ Y or N or NA UPS TA Courier
 Initial/date/time Keith DHL Mid Valley
 Senvoy TDP
 GS Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 4-0 °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="radio"/> Y or N _____	Metals Preserved? Y or N or <u>NA</u> _____	
Provided by TA? <input checked="" type="radio"/> Y or N _____	Client QAPP Preserved? Y or N or <u>NA</u> _____	
Correct Type? <input checked="" type="radio"/> Y or N _____	Adequate Volume? <input checked="" type="radio"/> Y or N _____	
#Containers match COC? <input checked="" type="radio"/> Y or N _____	(for tests requested)	
IDs/time/date match COC? <input checked="" type="radio"/> Y or N _____	Water VOAs: Headspace? Y or N or <u>NA</u> _____	
Hold Times in hold? <input checked="" type="radio"/> Y or N _____	Comments: _____	

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? Y or N

May 21, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 05/19/09 17:35.
The following list is a summary of the Work Orders contained in this report, generated on 05/21/09
14:04.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0201	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot 34-18	BSE0201-01	Soil	05/19/09 14:00	05/19/09 17:35

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0201-01RE1 (Amazon Lot 34-18)		Soil		Sampled: 05/19/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.74	mg/kg dry	1x	9E20006	05/20/09 09:26	05/20/09 20:52	
<i>Surrogate(s): 4-BFB (FID)</i>			92.6%		75 - 140 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0201-01 (Amazon Lot 34-18)		Soil		Sampled: 05/19/09 14:00						
Lube Oil	NWTPH-Dx	ND	----	26.6	mg/kg dry	1x	9E19050	05/19/09 18:19	05/19/09 23:45	
Kerosene	"	ND	----	10.6	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	10.6	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>			<i>71.9%</i>		<i>54 - 148 %</i>	"				"
<i>Octacosane</i>			<i>91.0%</i>		<i>62 - 142 %</i>	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0201-01	(Amazon Lot 34-18)	Soil			Sampled: 05/19/09 14:00					
Arsenic	EPA 6020	1.43	----	0.535	mg/kg dry	1x	9E19060	05/19/09 22:28	05/20/09 10:33	
Barium	"	32.6	----	5.35	"	"	"	"	"	
Cadmium	"	ND	----	0.535	"	"	"	"	"	
Chromium	"	22.3	----	0.535	"	"	"	"	"	
Lead	"	2.34	----	0.535	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	0.0987	"	"	9E20003	05/20/09 08:04	05/20/09 13:03	
Selenium	EPA 6020	ND	----	1.07	"	"	9E19060	05/19/09 22:28	05/20/09 10:33	
Silver	"	0.765	----	0.535	"	"	"	"	05/21/09 08:15	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0201-01 (Amazon Lot 34-18)		Soil		Sampled: 05/19/09 14:00						
Isopropylbenzene	EPA 8260B	ND	----	3.51	ug/kg dry	1x	9E19022	05/19/09 15:23	05/19/09 23:12	I
p-Isopropyltoluene	"	ND	----	3.51	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	21.0	"	"	"	"	"	
Methylene chloride	"	ND	----	8.42	"	"	"	"	"	
Naphthalene	"	ND	----	7.01	"	"	"	"	"	
n-Propylbenzene	"	ND	----	3.51	"	"	"	"	"	
Styrene	"	ND	----	1.75	"	"	"	"	"	I
1,2,3-Trichlorobenzene	"	ND	----	7.01	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	7.01	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	3.51	"	"	"	"	"	I
1,1,2,2-Tetrachloroethane	"	ND	----	3.51	"	"	"	"	"	
Tetrachloroethene	"	ND	----	1.40	"	"	"	"	"	I
Toluene	"	ND	----	1.05	"	"	"	"	"	I
1,1,1-Trichloroethane	"	ND	----	1.75	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	1.40	"	"	"	"	"	I
Trichloroethene	"	2.05	----	1.75	"	"	"	"	"	
Trichlorofluoromethane	"	ND	----	3.51	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	3.51	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	3.51	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	3.51	"	"	"	"	"	
Vinyl chloride	"	ND	----	1.75	"	"	"	"	"	
o-Xylene	"	ND	----	3.51	"	"	"	"	"	I
m,p-Xylene	"	ND	----	3.51	"	"	"	"	"	I
Total Xylenes	"	ND	----	7.01	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>123%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>100%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>100%</i>	<i>70 - 130 %</i>						

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0201-01 (Amazon Lot 34-18)										
		Soil							Sampled: 05/19/09 14:00	
Acenaphthene	8270C-SIM	ND	----	0.0107	mg/kg dry	1x	9E19051	05/19/09 18:20	05/19/09 21:31	
Acenaphthylene	"	ND	----	0.0107	"	"	"	"	"	
Anthracene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0107	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0107	"	"	"	"	"	C
Benzo (b & k) fluoranthene	"	ND	----	0.0214	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0107	"	"	"	"	"	
Chrysene	"	ND	----	0.0107	"	"	"	"	"	
Dibenz (a,h) anthracene	"	ND	----	0.0107	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0107	"	"	"	"	"	
Fluorene	"	ND	----	0.0107	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0107	"	"	"	"	"	
1-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	
2-Methylnaphthalene	"	ND	----	0.0107	"	"	"	"	"	
Naphthalene	"	ND	----	0.0107	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0107	"	"	"	"	"	
Pyrene	"	ND	----	0.0107	"	"	"	"	"	
<i>Surrogate(s): p-Terphenyl-d14</i>			93.0%		46 - 125 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/21/09 14:04
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0201-01	(Amazon Lot 34-18)									
		Soil			Sampled: 05/19/09 14:00					
Dry Weight	BSOPSP003R0 8	93.4	----	1.00	%	1x	9E19053	05/19/09 18:22	05/20/09 00:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/21/09 14:04
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19037 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E19037-BLK1)													Extracted: 05/19/09 14:30			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/19/09 15:33			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 77.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/19/09 15:33</i>			
LCS (9E19037-BS1)													Extracted: 05/19/09 14:30			
Gasoline Range Hydrocarbons	NWTPH-Gx	53.4	---	5.00	mg/kg wet	1x	--	50.0	107%	(80-120)	--	--	05/19/09 16:03			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 105%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/19/09 16:03</i>			
Duplicate (9E19037-DUP1)													QC Source: BSE0184-01		Extracted: 05/19/09 14:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	4.17	---	4.15	mg/kg wet	1x	ND	--	--	--	17.5% (40)		05/19/09 17:03			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 89.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/19/09 17:03</i>			
Duplicate (9E19037-DUP2)													QC Source: BSE0184-02		Extracted: 05/19/09 14:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.47	mg/kg wet	1x	ND	--	--	--	NR (40)		05/19/09 18:03			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 80.9%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/19/09 18:03</i>			
Matrix Spike (9E19037-MS1)													QC Source: BSE0184-01		Extracted: 05/19/09 14:30	
Gasoline Range Hydrocarbons	NWTPH-Gx	44.5	---	4.15	mg/kg wet	1x	3.50	41.5	98.8%	(75-130)	--	--	05/19/09 20:04			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 108%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/19/09 20:04</i>			

QC Batch: 9E20006 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E20006-BLK1)													Extracted: 05/20/09 09:26			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 18:10			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 83.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/20/09 18:10</i>			
LCS (9E20006-BS1)													Extracted: 05/20/09 09:26			
Gasoline Range Hydrocarbons	NWTPH-Gx	55.5	---	5.00	mg/kg wet	1x	--	50.0	111%	(80-120)	--	--	05/20/09 18:43			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.8%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/20/09 18:43</i>			
Duplicate (9E20006-DUP1)													QC Source: BSE0210-01		Extracted: 05/20/09 14:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	6.73	mg/kg dry	1x	ND	--	--	--	NR (40)		05/20/09 19:48			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 107%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/20/09 19:48</i>			
Matrix Spike (9E20006-MS1)													QC Source: BSE0210-01		Extracted: 05/20/09 14:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	73.5	---	6.73	mg/kg dry	1x	ND	53.4	137%	(75-130)	--	--	05/20/09 23:02	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 120%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/20/09 23:02</i>			

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/21/09 14:04
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19050 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E19050-BLK1)

Extracted: 05/19/09 18:19

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/19/09 20:40	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>79.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/19/09 20:40</i>	
<i>Octacosane</i>			<i>89.0%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E19050-BS1)

Extracted: 05/19/09 18:19

Lube Oil	NWTPH-Dx	62.5	---	25.0	mg/kg wet	1x	--	66.7	93.8%	(63-125)	--	--	05/19/09 21:27	
Diesel Range Hydrocarbons	"	66.0	---	10.0	"	"	--	"	99.1%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>82.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/19/09 21:27</i>	
<i>Octacosane</i>			<i>87.0%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E19050-DUP1)

QC Source: BSE0201-01

Extracted: 05/19/09 18:19

Lube Oil	NWTPH-Dx	ND	---	26.7	mg/kg dry	1x	ND	--	--	--	19.6% (50)	--	05/19/09 22:13	
Kerosene	"	ND	---	10.7	"	"	ND	--	--	--	149%	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	10.7	"	"	ND	--	--	--	48.6%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>83.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/19/09 22:13</i>	
<i>Octacosane</i>			<i>93.4%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E19050-MS1)

QC Source: BSE0201-01

Extracted: 05/19/09 18:19

Lube Oil	NWTPH-Dx	68.0	---	26.5	mg/kg dry	1x	2.54	70.6	92.6%	(26-150)	--	--	05/19/09 23:00	
Diesel Range Hydrocarbons	"	72.6	---	10.6	"	"	1.81	"	100%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>84.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/19/09 23:00</i>	
<i>Octacosane</i>			<i>87.7%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/21/09 14:04
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19060	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E19060-BLK1)

Extracted: 05/19/09 22:28

Cadmium	EPA 6020	ND	---	0.505	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 09:56	
Barium	"	ND	---	5.05	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	1.01	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.505	"	"	--	--	--	--	--	--	05/21/09 08:40	
Lead	"	ND	---	0.505	"	"	--	--	--	--	--	--	05/20/09 09:56	

LCS (9E19060-BS1)

Extracted: 05/19/09 22:28

Lead	EPA 6020	39.7	---	0.495	mg/kg wet	1x	--	39.6	100%	(80-120)	--	--	05/20/09 10:02	
Chromium	"	38.5	---	0.495	"	"	--	"	97.2%	"	--	--	"	
Barium	"	39.3	---	4.95	"	"	--	"	99.3%	"	--	--	"	
Cadmium	"	38.9	---	0.495	"	"	--	"	98.2%	"	--	--	"	
Silver	"	41.5	---	0.495	"	"	--	"	105%	"	--	--	05/21/09 07:44	
Arsenic	"	40.0	---	0.495	"	"	--	"	101%	"	--	--	05/20/09 10:02	
Selenium	"	42.0	---	0.990	"	"	--	"	106%	"	--	--	"	

Duplicate (9E19060-DUP1)

QC Source: BSE0200-01

Extracted: 05/19/09 22:28

Chromium	EPA 6020	28.2	---	0.611	mg/kg dry	1x	33.0	--	--	--	15.6%	(20)	05/20/09 10:21	
Barium	"	49.1	---	6.11	"	"	57.2	--	--	--	15.2%	"	"	
Cadmium	"	ND	---	0.611	"	"	ND	--	--	--	40.0%	"	"	R4
Silver	"	1.25	---	0.611	"	"	1.14	--	--	--	9.72%	"	05/21/09 08:03	
Arsenic	"	1.37	---	0.611	"	"	1.93	--	--	--	33.8%	"	05/20/09 10:21	R3
Selenium	"	ND	---	1.22	"	"	ND	--	--	--	NR	"	"	
Lead	"	2.09	---	0.611	"	"	2.44	--	--	--	15.6%	"	"	

Matrix Spike (9E19060-MS1)

QC Source: BSE0200-01

Extracted: 05/19/09 22:28

Selenium	EPA 6020	51.3	---	1.25	mg/kg dry	1x	ND	49.8	103%	(75-125)	--	--	05/20/09 10:15	
Arsenic	"	50.0	---	0.623	"	"	1.93	"	96.5%	"	--	--	"	
Cadmium	"	48.6	---	0.623	"	"	0.165	"	97.3%	"	--	--	"	
Lead	"	52.3	---	0.623	"	"	2.44	"	100%	"	--	--	"	
Chromium	"	75.2	---	0.623	"	"	33.0	"	84.7%	"	--	--	"	
Silver	"	47.4	---	0.623	"	"	1.14	"	92.9%	"	--	--	05/21/09 07:56	
Barium	"	98.0	---	6.23	"	"	57.2	"	81.9%	"	--	--	05/20/09 10:15	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/21/09 14:04
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19060	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9E19060-PS1)			QC Source: BSE0200-01				Extracted: 05/19/09 22:28							
Lead	EPA 6020	0.109	---		ug/ml	1x	0.00400	0.100	105%	(80-120)	--	--	05/20/09 10:08	
Selenium	"	0.108	---		"	"	0.000560	"	107%	"	--	--	"	
Silver	"	0.102	---		"	"	0.00186	"	101%	"	--	--	05/21/09 07:50	
Barium	"	0.195	---		"	"	0.0936	"	101%	"	--	--	05/20/09 10:08	
Arsenic	"	0.109	---		"	"	0.00315	0.0995	106%	"	--	--	"	
Cadmium	"	0.106	---		"	"	0.000270	0.100	105%	"	--	--	"	
Chromium	"	0.155	---		"	"	0.0540	"	101%	"	--	--	"	

QC Batch: 9E20003	Soil Preparation Method: EPA 7471A
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E20003-BLK1)							Extracted: 05/20/09 08:04							
Mercury	EPA 7471A	ND	---	0.0969	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 12:30	
LCS (9E20003-BS1)							Extracted: 05/20/09 08:04							
Mercury	EPA 7471A	0.631	---	0.0979	mg/kg wet	1x	--	0.653	96.7%	(80-120)	--	--	05/20/09 12:33	
LCS Dup (9E20003-BSD1)							Extracted: 05/20/09 08:04							
Mercury	EPA 7471A	0.633	---	0.0965	mg/kg wet	1x	--	0.643	98.3%	(80-120)	0.224% (20)		05/20/09 12:35	
Matrix Spike (9E20003-MS1)			QC Source: BSE0201-01				Extracted: 05/20/09 08:04							
Mercury	EPA 7471A	0.735	---	0.107	mg/kg dry	1x	0.0147	0.711	101%	(80-125)	--	--	05/20/09 12:38	
Matrix Spike Dup (9E20003-MSD1)			QC Source: BSE0201-01				Extracted: 05/20/09 08:04							
Mercury	EPA 7471A	0.665	---	0.101	mg/kg dry	1x	0.0147	0.674	96.6%	(80-125)	9.95% (30)		05/20/09 12:40	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9E19022

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E19022-BLK1)													Extracted: 05/19/09 14:23	
Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	05/19/09 16:22	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	05/21/09 14:04

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E19022-BLK1)													Extracted: 05/19/09 14:23	
Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	05/19/09 16:22	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 124%</i>		<i>Limits: 70-140%</i>		<i>"</i>							<i>05/19/09 16:22</i>	
<i>Toluene-d8</i>		<i>96.7%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>98.3%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 05/21/09 14:04

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9E19022-BS1)													Extracted: 05/19/09 14:23	
Acetone	EPA 8260B	493	---	40.0	ug/kg wet	1x	--	500	98.5%	(60-140)	--	--	05/19/09 15:31	
Benzene	"	47.3	---	1.50	"	"	--	50.0	94.7%	(70-125)	--	--	"	
2-Butanone	"	456	---	30.0	"	"	--	500	91.2%	(60-140)	--	--	"	
Carbon disulfide	"	42.2	---	3.00	"	"	--	50.0	84.5%	(70-130)	--	--	"	
Chlorobenzene	"	45.0	---	2.00	"	"	--	"	90.0%	(70-125)	--	--	"	
1,1-Dichloroethane	"	43.4	---	2.00	"	"	--	"	86.9%	(75-125)	--	--	"	
1,1-Dichloroethene	"	43.5	---	3.00	"	"	--	"	86.9%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	41.6	---	3.00	"	"	--	"	83.1%	(75-125)	--	--	"	
Ethylbenzene	"	44.9	---	4.00	"	"	--	"	89.7%	(70-125)	--	--	"	
Hexachlorobutadiene	"	51.7	---	10.0	"	"	--	"	103%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	484	---	30.0	"	"	--	500	96.7%	(60-140)	--	--	"	
Tetrachloroethene	"	47.0	---	2.00	"	"	--	50.0	94.0%	(70-125)	--	--	"	
Toluene	"	44.3	---	1.50	"	"	--	"	88.6%	"	--	--	"	
1,1,1-Trichloroethane	"	44.9	---	2.50	"	"	--	"	89.8%	(70-130)	--	--	"	
Trichloroethene	"	42.4	---	2.50	"	"	--	"	84.9%	(70-125)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 105%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>05/19/09 15:31</i>		
<i>Toluene-d8</i>		<i>100%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>104%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

LCS Dup (9E19022-BSD1)

Extracted: 05/19/09 14:23

Acetone	EPA 8260B	512	---	40.0	ug/kg wet	1x	--	500	102%	(60-140)	3.80% (30)		05/19/09 15:56	
Benzene	"	53.1	---	1.50	"	"	--	50.0	106%	(70-125)	11.5%	"	"	
2-Butanone	"	468	---	30.0	"	"	--	500	93.6%	(60-140)	2.57%	"	"	
Carbon disulfide	"	48.6	---	3.00	"	"	--	50.0	97.3%	(70-130)	14.1%	"	"	
Chlorobenzene	"	50.5	---	2.00	"	"	--	"	101%	(70-125)	11.4%	"	"	
1,1-Dichloroethane	"	48.9	---	2.00	"	"	--	"	97.9%	(75-125)	11.9%	"	"	
1,1-Dichloroethene	"	49.4	---	3.00	"	"	--	"	98.7%	(70-130)	12.7%	"	"	
cis-1,2-Dichloroethene	"	47.5	---	3.00	"	"	--	"	95.0%	(75-125)	13.3%	"	"	
Ethylbenzene	"	51.0	---	4.00	"	"	--	"	102%	(70-125)	12.9%	"	"	
Hexachlorobutadiene	"	56.1	---	10.0	"	"	--	"	112%	(70-130)	8.14%	"	"	
4-Methyl-2-pentanone	"	466	---	30.0	"	"	--	500	93.1%	(60-140)	3.79%	"	"	
Tetrachloroethene	"	52.2	---	2.00	"	"	--	50.0	104%	(70-125)	10.4%	"	"	
Toluene	"	48.2	---	1.50	"	"	--	"	96.3%	"	8.39%	"	"	
1,1,1-Trichloroethane	"	50.4	---	2.50	"	"	--	"	101%	(70-130)	11.5%	"	"	
Trichloroethene	"	49.0	---	2.50	"	"	--	"	98.0%	(70-125)	14.4%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery: 105%</i>		<i>Limits: 70-140%</i>		<i>"</i>						<i>05/19/09 15:56</i>		
<i>Toluene-d8</i>		<i>99.9%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>						<i>"</i>		

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/21/09 14:04
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19051 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E19051-BLK1)													Extracted: 05/19/09 18:20	
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	05/19/09 20:39	
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	C
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Benzo (b & k) fluoranthene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): p-Terphenyl-d14 Recovery: 94.2% Limits: 46-125% "</i>													<i>05/19/09 20:39</i>	

LCS (9E19051-BS1)													Extracted: 05/19/09 18:20	
Acenaphthene	8270C-SIM	0.670	---	0.0100	mg/kg wet	1x	--	0.667	100%	(65-130)	--	--	05/19/09 21:56	
Acenaphthylene	"	0.768	---	0.0100	"	"	--	"	115%	(67-142)	--	--	"	
Anthracene	"	0.797	---	0.0100	"	"	--	"	120%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.709	---	0.0100	"	"	--	"	106%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.758	---	0.0100	"	"	--	"	114%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.823	---	0.0100	"	"	--	"	123%	(70-149)	--	--	"	C8
Benzo (k) fluoranthene	"	0.767	---	0.0100	"	"	--	"	115%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.751	---	0.0100	"	"	--	"	113%	"	--	--	"	
Chrysene	"	0.792	---	0.0100	"	"	--	"	119%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.736	---	0.0100	"	"	--	"	110%	(56-149)	--	--	"	
Fluoranthene	"	0.836	---	0.0100	"	"	--	"	125%	(72-145)	--	--	"	
Fluorene	"	0.728	---	0.0100	"	"	--	"	109%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.714	---	0.0100	"	"	--	"	107%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.530	---	0.0100	"	"	--	"	79.6%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.519	---	0.0100	"	"	--	"	77.9%	(56-124)	--	--	"	
Naphthalene	"	0.520	---	0.0100	"	"	--	"	78.1%	(56-146)	--	--	"	
Phenanthrene	"	0.686	---	0.0100	"	"	--	"	103%	(64-139)	--	--	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/21/09 14:04
--	--	-----------------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19051 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9E19051-BS1)													Extracted: 05/19/09 18:20	
Pyrene	8270C-SIM	0.775	---	0.0100	mg/kg wet	1x	--	0.667	116%	(58-149)	--	--	05/19/09 21:56	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 76.9%</i>		<i>Limits: 46-125%</i>		<i>"</i>						<i>05/19/09 21:56</i>		

Matrix Spike (9E19051-MS1)													QC Source: BSE0201-01	Extracted: 05/19/09 18:20
Acenaphthene	8270C-SIM	0.723	---	0.0107	mg/kg dry	1x	ND	0.713	101%	(64-140)	--	--	05/19/09 22:22	
Acenaphthylene	"	0.829	---	0.0107	"	"	ND	"	116%	(66-150)	--	--	"	
Anthracene	"	0.858	---	0.0107	"	"	ND	"	120%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.762	---	0.0107	"	"	ND	"	107%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.814	---	0.0107	"	"	ND	"	114%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.892	---	0.0107	"	"	ND	"	125%	(54-150)	--	--	"	C8
Benzo (k) fluoranthene	"	0.828	---	0.0107	"	"	ND	"	116%	"	--	--	"	
Benzo (ghi) perylene	"	0.788	---	0.0107	"	"	ND	"	110%	"	--	--	"	
Chrysene	"	0.850	---	0.0107	"	"	ND	"	119%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.762	---	0.0107	"	"	ND	"	107%	(55-150)	--	--	"	
Fluoranthene	"	0.906	---	0.0107	"	"	ND	"	127%	(70-150)	--	--	"	
Fluorene	"	0.795	---	0.0107	"	"	ND	"	112%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.742	---	0.0107	"	"	ND	"	104%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.560	---	0.0107	"	"	ND	"	78.5%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.549	---	0.0107	"	"	ND	"	76.9%	(50-140)	--	--	"	
Naphthalene	"	0.555	---	0.0107	"	"	ND	"	77.8%	(47-147)	--	--	"	
Phenanthrene	"	0.743	---	0.0107	"	"	ND	"	104%	(56-150)	--	--	"	
Pyrene	"	0.853	---	0.0107	"	"	ND	"	120%	(57-150)	--	--	"	
<i>Surrogate(s): p-Terphenyl-d14</i>		<i>Recovery: 79.5%</i>		<i>Limits: 46-125%</i>		<i>"</i>						<i>05/19/09 22:22</i>		

Matrix Spike Dup (9E19051-MSD1)													QC Source: BSE0201-01	Extracted: 05/19/09 18:20
Acenaphthene	8270C-SIM	0.727	---	0.0106	mg/kg dry	1x	ND	0.709	103%	(64-140)	0.600% (41)		05/19/09 22:48	
Acenaphthylene	"	0.828	---	0.0106	"	"	ND	"	117%	(66-150)	0.0982%	"	"	
Anthracene	"	0.850	---	0.0106	"	"	ND	"	120%	(54-150)	0.956%	"	"	
Benzo (a) anthracene	"	0.765	---	0.0106	"	"	ND	"	108%	(57-150)	0.472%	"	"	
Benzo (a) pyrene	"	0.818	---	0.0106	"	"	ND	"	115%	(55-150)	0.468% (35)	"	"	
Benzo (b) fluoranthene	"	0.887	---	0.0106	"	"	ND	"	125%	(54-150)	0.608% (41)	"	"	C8
Benzo (k) fluoranthene	"	0.814	---	0.0106	"	"	ND	"	115%	"	1.68%	"	"	
Benzo (ghi) perylene	"	0.788	---	0.0106	"	"	ND	"	111%	"	0.0307%	"	"	
Chrysene	"	0.850	---	0.0106	"	"	ND	"	120%	(65-150)	0.0632% (40)	"	"	
Dibenz (a,h) anthracene	"	0.757	---	0.0106	"	"	ND	"	107%	(55-150)	0.749% (41)	"	"	
Fluoranthene	"	0.869	---	0.0106	"	"	ND	"	123%	(70-150)	4.20%	"	"	
Fluorene	"	0.778	---	0.0106	"	"	ND	"	110%	(74-150)	2.20% (44)	"	"	
Indeno (1,2,3-cd) pyrene	"	0.741	---	0.0106	"	"	ND	"	105%	(50-150)	0.195%	"	"	
1-Methylnaphthalene	"	0.554	---	0.0106	"	"	ND	"	78.1%	(45-145)	1.07% (41)	"	"	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 05/21/09 14:04
--	--	-----------------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19051 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9E19051-MSD1)			QC Source: BSE0201-01				Extracted: 05/19/09 18:20							
2-Methylnaphthalene	8270C-SIM	0.547	---	0.0106	mg/kg dry	1x	ND	0.709	77.2%	(50-140)	0.249% (41)		05/19/09 22:48	
Naphthalene	"	0.554	---	0.0106	"	"	ND	"	78.2%	(47-147)	0.267% "	"	"	"
Phenanthrene	"	0.744	---	0.0106	"	"	ND	"	105%	(56-150)	0.120% "	"	"	"
Pyrene	"	0.872	---	0.0106	"	"	ND	"	123%	(57-150)	2.19% "	"	"	"
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 82.7%		Limits: 46-125%		"							05/19/09 22:48	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	05/21/09 14:04
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E19053 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E19053-BLK1)										Extracted: 05/19/09 18:22				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/20/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

05/21/09 14:04

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BAT001**

CLIENT: WRS Corp.		INVOICE TO: WRS Seattle 1501 4th Ave Seattle, WA 98101		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses			
REPORT TO: Wmcp Staff	ADDRESS:	P.O. NUMBER:	DATE: 5-19-09	TIME: 1430	DATE: 5/19/09	TIME: 1600	
PHONE:	FAX:	PROJECT NAME: Wmcp Phase II	DATE: 5-19-09	TIME: 1400	FIRM: WRS	DATE: 5/19/09	TIME: 1600
SAMPLED BY: Matthew McKibbin	SAMPLING DATE/TIME: 5-19-09/1400	PROJECT NUMBER:	DATE: 5-19-09	TIME: 1430	FIRM: WRS	DATE: 5/19/09	TIME: 1600
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REQUESTED ANALYSES	DATE	TIME	FIRM	DATE	TIME
1 Amazon Lot 34-18	5-19-09/1400	GC, MS/FT, RPT, RPT, RPT, RPT					
2							
3							
4							
5							
6							
7							
8							
9							
10							
RELEASED BY: Matthew McKibbin	PRINT NAME: Matthew McKibbin	RECEIVED BY: Francisco Lunny, Jr	DATE: 5-19-09	TIME: 1430	FIRM: WRS	DATE: 5/19/09	TIME: 1600
RELEASED BY:	PRINT NAME:	RECEIVED BY:	DATE:	TIME:	FIRM:	DATE:	TIME:
ADDITIONAL REMARKS:		PRINT NAME:	DATE:	TIME:	FIRM:	DATE:	TIME:
Method according to memo on file		TEMP:					
		PAGE	1	OF	1		

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or **N**

(If Y, see other side)

Rush

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/
Labeled by: _____

Label Review by: _____ Cooler ID: _____

Date: 5/19

Date: 5/19

Date: 5/19

Date: _____ Work Order No. 60E0201

Time: 17:30

Time: 17:43

Time: 17:55

Time: _____ Client: _____

Initials: CB

Initials: CB

Initials: CB

Initials: _____ Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container _____ Sign By

Bubble Bags _____ Styrofoam

____ Box

____ On Bottles _____ Date

____ Foam Packs

____ None/Other _____

None

____ None/Other _____

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

Y or N or NA

____ UPS _____ TA Courier

____ None/Other _____

Initial/date/time Heith

____ DHL _____ Mid Valley

____ Servoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 4.0 °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? Y or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? Y or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? Y or N _____

Adequate Volume? Y or N _____
(for tests requested)

#Containers match COC? Y or N _____

Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? Y or N _____

Comments: _____

Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____

Y or N

May 21, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/20/09 16:10.
The following list is a summary of the Work Orders contained in this report, generated on 05/21/09
15:53.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0210	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/21/09 15:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA-G1-4	BSE0210-01	Soil	05/20/09 13:00	05/20/09 16:10

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/21/09 15:53
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0210-01 (AREA-G1-4)		Soil			Sampled: 05/20/09 13:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.88	6.73	mg/kg dry	1x	9E20006	05/20/09 14:00	05/20/09 19:15	M1
<i>Surrogate(s): 4-BFB (FID)</i>			107%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/21/09 15:53

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0210-01 (AREA-G1-4)		Soil			Sampled: 05/20/09 13:00					
Lube Oil	NWTPH-Dx	ND	----	31.9	mg/kg dry	1x	9E20013	05/20/09 14:10	05/20/09 21:29	
Kerosene	"	ND	----	12.8	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	12.8	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>			98.9%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/21/09 15:53

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0210-01	(AREA-G1-4)									
			Soil				Sampled: 05/20/09 13:00			
Lead	EPA 6020	3.76	----	0.638	mg/kg dry	1x	9E20042	05/20/09 22:04	05/21/09 09:18	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/21/09 15:53

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0210-01 (AREA-G1-4)										
		Soil					Sampled: 05/20/09 13:00			
Benzene	EPA 8260B	0.00554	----	0.00105	mg/kg dry	1x	9E20022	05/20/09 17:00	05/20/09 17:29	
Ethylbenzene	"	ND	----	0.00281	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000703	"	"	"	"	"	
Naphthalene	"	ND	----	0.00703	"	"	"	"	"	
Toluene	"	ND	----	0.00105	"	"	"	"	"	
o-Xylene	"	ND	----	0.00351	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00351	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00703	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>128%</i>	<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>			<i>99.9%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>			<i>104%</i>	<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/21/09 15:53
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0210-01	(AREA-G1-4)									
		Soil			Sampled: 05/20/09 13:00					
Dry Weight	BSOPSPL003R0 8	78.4	----	1.00	%	1x	9E20040	05/20/09 18:11	05/21/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/21/09 15:53
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20006 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E20006-BLK1)										Extracted: 05/20/09 09:26				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 18:10	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 83.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/20/09 18:10</i>
LCS (9E20006-BS1)										Extracted: 05/20/09 09:26				
Gasoline Range Hydrocarbons	NWTPH-Gx	55.5	1.40	5.00	mg/kg wet	1x	--	50.0	111%	(80-120)	--	--	05/20/09 18:43	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.8%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/20/09 18:43</i>
Duplicate (9E20006-DUP1)										QC Source: BSE0210-01		Extracted: 05/20/09 14:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.88	6.73	mg/kg dry	1x	ND	--	--	--	NR (40)		05/20/09 19:48	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 107%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/20/09 19:48</i>
Matrix Spike (9E20006-MS1)										QC Source: BSE0210-01		Extracted: 05/20/09 14:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	73.5	1.88	6.73	mg/kg dry	1x	ND	53.4	137%	(75-130)	--	--	05/20/09 23:02	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 120%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/20/09 23:02</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/21/09 15:53
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20013 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E20013-BLK1)

Extracted: 05/20/09 14:10

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 19:54	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/20/09 19:54</i>	
<i>Octacosane</i>			<i>112%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E20013-BS1)

Extracted: 05/20/09 14:10

Lube Oil	NWTPH-Dx	71.4	---	25.0	mg/kg wet	1x	--	66.7	107%	(63-125)	--	--	05/20/09 20:17	
Diesel Range Hydrocarbons	"	80.8	---	10.0	"	"	--	"	121%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/20/09 20:17</i>	
<i>Octacosane</i>			<i>108%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E20013-DUP1)

QC Source: BSE0210-01

Extracted: 05/20/09 14:10

Lube Oil	NWTPH-Dx	ND	---	31.8	mg/kg dry	1x	ND	--	--	--	30.9% (50)	--	05/20/09 20:41	
Kerosene	"	ND	---	12.7	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.7	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/20/09 20:41</i>	
<i>Octacosane</i>			<i>108%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E20013-MS1)

QC Source: BSE0210-01

Extracted: 05/20/09 14:10

Lube Oil	NWTPH-Dx	88.9	---	31.8	mg/kg dry	1x	6.91	84.8	96.7%	(26-150)	--	--	05/20/09 21:05	
Diesel Range Hydrocarbons	"	98.9	---	12.7	"	"	ND	"	117%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/20/09 21:05</i>	
<i>Octacosane</i>			<i>107%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/21/09 15:53
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20042	Soil Preparation Method: EPA 3050B
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E20042-BLK1)								Extracted: 05/20/09 22:04						
Lead	EPA 6020	ND	---	0.505	mg/kg wet	1x	--	--	--	--	--	--	05/21/09 08:47	
LCS (9E20042-BS1)								Extracted: 05/20/09 22:04						
Lead	EPA 6020	40.2	---	0.495	mg/kg wet	1x	--	39.6	101%	(80-120)	--	--	05/21/09 08:53	
Duplicate (9E20042-DUP1)				QC Source: BSE0211-06				Extracted: 05/20/09 22:04						
Lead	EPA 6020	3.12	---	0.533	mg/kg dry	1x	3.27	--	--	--	4.67% (20)	--	05/21/09 09:12	
Matrix Spike (9E20042-MS1)				QC Source: BSE0211-06				Extracted: 05/20/09 22:04						
Lead	EPA 6020	44.3	---	0.518	mg/kg dry	1x	3.27	41.5	98.9%	(75-125)	--	--	05/21/09 09:06	
Post Spike (9E20042-PS1)				QC Source: BSE0211-06				Extracted: 05/20/09 22:04						
Lead	EPA 6020	0.111	---		ug/ml	1x	0.00613	0.100	105%	(80-120)	--	--	05/21/09 08:59	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/21/09 15:53
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E20022-BLK1)													Extracted: 05/20/09 14:00	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 16:29	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>132%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/20/09 16:29</i>	
<i>Toluene-d8</i>			<i>94.7%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>99.8%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E20022-BS1)													Extracted: 05/20/09 14:00	
Benzene	EPA 8260B	0.0488	---	0.00150	mg/kg wet	1x	--	0.0500	97.7%	(70-125)	--	--	05/20/09 15:37	
Ethylbenzene	"	0.0472	---	0.00400	"	"	--	"	94.4%	"	--	--	"	
Methyl tert-butyl ether	"	0.0460	---	0.00100	"	"	--	"	91.9%	(70-130)	--	--	"	
Naphthalene	"	0.0467	---	0.0100	"	"	--	"	93.4%	"	--	--	"	
Toluene	"	0.0460	---	0.00150	"	"	--	"	92.0%	(70-125)	--	--	"	
Total Xylenes	"	0.139	---	0.0100	"	"	--	0.150	92.9%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>105%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/20/09 15:37</i>	
<i>Toluene-d8</i>			<i>95.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E20022-BSD1)													Extracted: 05/20/09 14:00	
Benzene	EPA 8260B	0.0530	---	0.00150	mg/kg wet	1x	--	0.0500	106%	(70-125)	8.24% (30)		05/20/09 16:03	
Ethylbenzene	"	0.0484	---	0.00400	"	"	--	"	96.7%	"	2.39%	"	"	
Methyl tert-butyl ether	"	0.0512	---	0.00100	"	"	--	"	102%	(70-130)	10.9%	"	"	
Naphthalene	"	0.0530	---	0.0100	"	"	--	"	106%	"	12.7%	"	"	
Toluene	"	0.0489	---	0.00150	"	"	--	"	97.8%	(70-125)	6.07%	"	"	
Total Xylenes	"	0.146	---	0.0100	"	"	--	0.150	97.5%	(70-130)	4.85%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>109%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/20/09 16:03</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>97.4%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/21/09 15:53
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20040 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E20040-BLK1)										Extracted: 05/20/09 18:11				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/21/09 00:00	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/21/09 15:53

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/21/09 15:53

Notes and Definitions

Report Specific Notes:

- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ **Logged-in By:** _____ **Unpacked/ Labeled by:** _____ **Label Review by:** _____ **Cooler ID:** _____
 (applies to temp at receipt)

Date: 5/20/09 Date: 5/20/09 Date: 5/20/09 Date: _____ Work Order No. BSE0210
 Time: 1610 Time: 1628 Time: 1638 Time: _____ Client: _____
 Initials: FL Initials: FL Initials: FL Initials: _____ Project: _____

Container Type: _____ **COC Seals:** _____ **Packing Material:** _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ _____ Foam Packs
 _____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ **Soil Stir Bars/Encores:** _____ **Received Via: Bill#:** _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ or N or NA _____ UPS TA Courier
 _____ None/Other _____ Initial/date/time FL 5/20/09 _____ DHL _____ Mid Valley
 _____ _____ 1640 _____ Senvoy _____ TDP
 _____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 3.4 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ **ID** _____ **ID** _____
 Intact? or N _____ Metals Preserved? Y or N or _____
 Provided by TA? or N _____ Client QAPP Preserved? Y or N or _____
 Correct Type? or N _____ Adequate Volume? or N _____
 (for tests requested)
 #Containers match COC? or N _____ Water VOAs: Headspace? Y or N or _____
 IDs/time/date match COC? or N _____ Comments: _____
 Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete
 Comments, Problems _____

Total access set up? Y or N

May 28, 2009

Melanie Young
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: COP Westlake & Mercer Cleanup Project

Enclosed are the results of analyses for samples received by the laboratory on 05/20/09 16:10.
The following list is a summary of the Work Orders contained in this report, generated on 05/28/09
15:57.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0211	COP Westlake & Mercer Clea	[none]

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: [none]

Project Manager: Melanie Young

Report Created:

05/28/09 15:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I-052009	BSE0211-01	Water	05/20/09 10:50	05/20/09 16:10
M-052009	BSE0211-02	Water	05/20/09 11:00	05/20/09 16:10
E01-052009	BSE0211-03	Water	05/20/09 11:10	05/20/09 16:10
E02-052009	BSE0211-04	Water	05/20/09 11:20	05/20/09 16:10
E03-052009	BSE0211-05	Water	05/20/09 11:30	05/20/09 16:10
AMAZON LOT 34-19	BSE0211-06	Soil	05/20/09 13:40	05/20/09 16:10

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: [none] Project Manager: Melanie Young	Report Created: 05/28/09 15:57
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-01 (I-052009)		Water			Sampled: 05/20/09 10:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	176	----	50.0	ug/l	1x	9E21005	05/21/09 07:15	05/21/09 19:07	
Surrogate(s): 4-BFB (FID)		86.4%		70 - 145 %		"				"
BSE0211-02 (M-052009)		Water			Sampled: 05/20/09 11:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	62.6	----	50.0	ug/l	1x	9E21005	05/21/09 07:15	05/21/09 19:40	
Surrogate(s): 4-BFB (FID)		86.6%		70 - 145 %		"				"
BSE0211-03 (E01-052009)		Water			Sampled: 05/20/09 11:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9E21005	05/21/09 07:15	05/21/09 20:13	
Surrogate(s): 4-BFB (FID)		85.5%		70 - 145 %		"				"
BSE0211-04 (E02-052009)		Water			Sampled: 05/20/09 11:20					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9E21005	05/21/09 07:15	05/21/09 20:46	
Surrogate(s): 4-BFB (FID)		84.5%		70 - 145 %		"				"
BSE0211-05 (E03-052009)		Water			Sampled: 05/20/09 11:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9E21005	05/21/09 07:15	05/21/09 21:20	
Surrogate(s): 4-BFB (FID)		85.1%		70 - 145 %		"				"
BSE0211-06 (AMAZON LOT 34-19)		Soil			Sampled: 05/20/09 13:40					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	4.99	mg/kg dry	1x	9E20006	05/20/09 14:00	05/20/09 20:20	
Surrogate(s): 4-BFB (FID)		91.9%		75 - 140 %		"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: [none] Project Manager: Melanie Young	Report Created: 05/28/09 15:57
--	--	-----------------------------------

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-01 (I-052009)		Water			Sampled: 05/20/09 10:50					
Diesel Range Hydrocarbons	NWTPH-Dx	0.797	----	0.238	mg/l	1x	9E21007	05/21/09 08:45	05/22/09 17:04	Q12
Surrogate(s): 2-FBP		70.3%		53 - 120 %	"				"	
Octacosane		92.0%		68 - 123 %	"				"	
BSE0211-01RE1 (I-052009)		Water			Sampled: 05/20/09 10:50					
Lube Oil Range Hydrocarbons	NWTPH-Dx	0.555	----	0.476	mg/l	1x	9E21007	05/21/09 08:45	05/26/09 11:39	Q1
Surrogate(s): 2-FBP		81.9%		53 - 120 %	"				"	
Octacosane		98.1%		68 - 123 %	"				"	
BSE0211-02 (M-052009)		Water			Sampled: 05/20/09 11:00					
Diesel Range Hydrocarbons	NWTPH-Dx	0.440	----	0.236	mg/l	1x	9E21007	05/21/09 08:45	05/22/09 17:27	Q12
Surrogate(s): 2-FBP		73.8%		53 - 120 %	"				"	
Octacosane		89.8%		68 - 123 %	"				"	
BSE0211-02RE1 (M-052009)		Water			Sampled: 05/20/09 11:00					
Lube Oil Range Hydrocarbons	NWTPH-Dx	ND	----	0.472	mg/l	1x	9E21007	05/21/09 08:45	05/26/09 12:01	
Surrogate(s): 2-FBP		87.5%		53 - 120 %	"				"	
Octacosane		96.0%		68 - 123 %	"				"	
BSE0211-03 (E01-052009)		Water			Sampled: 05/20/09 11:10					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9E21007	05/21/09 08:45	05/22/09 17:51	
Surrogate(s): 2-FBP		63.7%		53 - 120 %	"				"	
Octacosane		90.8%		68 - 123 %	"				"	
BSE0211-03RE1 (E01-052009)		Water			Sampled: 05/20/09 11:10					
Lube Oil Range Hydrocarbons	NWTPH-Dx	ND	----	0.472	mg/l	1x	9E21007	05/21/09 08:45	05/26/09 12:24	
Surrogate(s): 2-FBP		73.9%		53 - 120 %	"				"	
Octacosane		95.1%		68 - 123 %	"				"	
BSE0211-04 (E02-052009)		Water			Sampled: 05/20/09 11:20					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9E21007	05/21/09 08:45	05/22/09 18:15	
Surrogate(s): 2-FBP		63.4%		53 - 120 %	"				"	
Octacosane		85.7%		68 - 123 %	"				"	

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Kate Haney, Project Manager

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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-04RE1 (E02-052009)		Water			Sampled: 05/20/09 11:20					
Lube Oil Range Hydrocarbons	NWTPH-Dx	ND	----	0.472	mg/l	1x	9E21007	05/21/09 08:45	05/26/09 12:47	
Surrogate(s):	2-FBP		75.7%		53 - 120 %	"				"
	Octacosane		97.5%		68 - 123 %	"				"
BSE0211-05 (E03-052009)		Water			Sampled: 05/20/09 11:30					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	----	0.236	mg/l	1x	9E21007	05/21/09 08:45	05/22/09 18:38	
Surrogate(s):	2-FBP		64.5%		53 - 120 %	"				"
	Octacosane		83.0%		68 - 123 %	"				"
BSE0211-05RE1 (E03-052009)		Water			Sampled: 05/20/09 11:30					
Lube Oil Range Hydrocarbons	NWTPH-Dx	ND	----	0.472	mg/l	1x	9E21007	05/21/09 08:45	05/26/09 13:09	
Surrogate(s):	2-FBP		76.7%		53 - 120 %	"				"
	Octacosane		96.9%		68 - 123 %	"				"

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	Project Number:	[none]	05/28/09 15:57
	Project Manager:	Melanie Young	

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-06 (AMAZON LOT 34-19)		Soil			Sampled: 05/20/09 13:40					
Lube Oil	NWTPH-Dx	ND	----	27.1	mg/kg dry	1x	9E20039	05/20/09 18:10	05/20/09 23:28	
Kerosene	"	ND	----	10.8	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	10.8	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>2-FBP</i>		<i>100%</i>		<i>54 - 148 %</i>	"				"
	<i>Octacosane</i>		<i>121%</i>		<i>62 - 142 %</i>	"				"

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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-06	(AMAZON LOT 34-19)	Soil			Sampled: 05/20/09 13:40					
Arsenic	EPA 6020	1.68	----	0.533	mg/kg dry	1x	9E20042	05/20/09 22:04	05/21/09 09:25	
Barium	"	45.0	----	5.33	"	"	"	"	"	
Cadmium	"	ND	----	0.533	"	"	"	"	"	
Chromium	"	25.4	----	0.533	"	"	"	"	"	
Lead	"	3.27	----	0.533	"	"	"	"	"	
Mercury	EPA 7471A	ND	----	9.70E-6	"	"	9E21019	05/21/09 11:55	05/21/09 12:47	
Selenium	EPA 6020	ND	----	1.07	"	"	9E20042	05/20/09 22:04	05/21/09 09:25	
Silver	"	ND	----	0.533	"	"	"	"	"	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: [none]

Project Manager: Melanie Young

Report Created:

05/28/09 15:57

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-06RE1 (AMAZON LOT 34-19)		Soil		Sampled: 05/20/09 13:40						
Acetone	EPA 8260B	ND	----	26.7	ug/kg dry	1x	9E20022	05/20/09 17:00	05/20/09 18:46	
Benzene	"	ND	----	1.00	"	"	"	"	"	
Bromobenzene	"	ND	----	3.33	"	"	"	"	"	I
Bromochloromethane	"	ND	----	3.33	"	"	"	"	"	
Bromodichloromethane	"	ND	----	3.33	"	"	"	"	"	
Bromoform	"	ND	----	3.33	"	"	"	"	"	I
Bromomethane	"	ND	----	6.67	"	"	"	"	"	
2-Butanone	"	ND	----	20.0	"	"	"	"	"	
n-Butylbenzene	"	ND	----	3.33	"	"	"	"	"	I
sec-Butylbenzene	"	ND	----	3.33	"	"	"	"	"	I
tert-Butylbenzene	"	ND	----	3.33	"	"	"	"	"	I
Carbon disulfide	"	ND	----	2.00	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	3.33	"	"	"	"	"	
Chlorobenzene	"	ND	----	1.33	"	"	"	"	"	I
Chloroethane	"	ND	----	3.33	"	"	"	"	"	
Chloroform	"	ND	----	1.67	"	"	"	"	"	
Chloromethane	"	ND	----	6.67	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	3.33	"	"	"	"	"	I
4-Chlorotoluene	"	ND	----	3.33	"	"	"	"	"	I
Dibromochloromethane	"	ND	----	3.33	"	"	"	"	"	I
1,2-Dibromo-3-chloropropane	"	ND	----	6.67	"	"	"	"	"	I
1,2-Dibromoethane (EDB)	"	ND	----	3.33	"	"	"	"	"	I
Dibromomethane	"	ND	----	3.33	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	3.33	"	"	"	"	"	I
1,3-Dichlorobenzene	"	ND	----	3.33	"	"	"	"	"	I
1,4-Dichlorobenzene	"	ND	----	3.33	"	"	"	"	"	I
Dichlorodifluoromethane	"	ND	----	3.33	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.33	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.833	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	2.00	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	2.00	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.67	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	3.33	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	3.33	"	"	"	"	"	I
2,2-Dichloropropane	"	ND	----	6.67	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	3.33	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	3.33	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	0.833	"	"	"	"	"	I
Ethylbenzene	"	ND	----	2.67	"	"	"	"	"	I
Hexachlorobutadiene	"	ND	----	6.67	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.667	"	"	"	"	"	
n-Hexane	"	ND	----	3.33	"	"	"	"	"	
2-Hexanone	"	ND	----	20.0	"	"	"	"	"	I

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-06RE1 (AMAZON LOT 34-19)		Soil			Sampled: 05/20/09 13:40					
Isopropylbenzene	EPA 8260B	ND	----	3.33	ug/kg dry	1x	9E20022	05/20/09 17:00	05/20/09 18:46	I
p-Isopropyltoluene	"	ND	----	3.33	"	"	"	"	"	I
4-Methyl-2-pentanone	"	ND	----	20.0	"	"	"	"	"	I
Methylene chloride	"	ND	----	8.00	"	"	"	"	"	I
Naphthalene	"	ND	----	6.67	"	"	"	"	"	I
n-Propylbenzene	"	ND	----	3.33	"	"	"	"	"	I
Styrene	"	ND	----	1.67	"	"	"	"	"	I
1,2,3-Trichlorobenzene	"	ND	----	6.67	"	"	"	"	"	I
1,2,4-Trichlorobenzene	"	ND	----	6.67	"	"	"	"	"	I
1,1,1,2-Tetrachloroethane	"	ND	----	3.33	"	"	"	"	"	I
1,1,1,2,2-Tetrachloroethane	"	ND	----	3.33	"	"	"	"	"	I
Tetrachloroethene	"	ND	----	1.33	"	"	"	"	"	I
Toluene	"	ND	----	1.00	"	"	"	"	"	I
1,1,1-Trichloroethane	"	ND	----	1.67	"	"	"	"	"	I
1,1,2-Trichloroethane	"	ND	----	1.33	"	"	"	"	"	I
Trichloroethene	"	ND	----	1.67	"	"	"	"	"	I
Trichlorofluoromethane	"	ND	----	3.33	"	"	"	"	"	I
1,2,3-Trichloropropane	"	ND	----	3.33	"	"	"	"	"	I
1,2,4-Trimethylbenzene	"	ND	----	3.33	"	"	"	"	"	I
1,3,5-Trimethylbenzene	"	ND	----	3.33	"	"	"	"	"	I
Vinyl chloride	"	ND	----	1.67	"	"	"	"	"	I
o-Xylene	"	ND	----	3.33	"	"	"	"	"	I
m,p-Xylene	"	ND	----	3.33	"	"	"	"	"	I
Total Xylenes	"	ND	----	6.67	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>124%</i>	<i>70 - 140 %</i>						<i>"</i>
<i>Toluene-d8</i>			<i>98.8%</i>	<i>70 - 130 %</i>						<i>"</i>
<i>4-BFB</i>			<i>102%</i>	<i>70 - 130 %</i>						<i>"</i>

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-01 (I-052009)	Water			Sampled: 05/20/09 10:50						
Benzene	EPA 8260B	0.660	----	0.500	ug/l	1x	9E22019	05/22/09 13:06	05/22/09 20:04	
Ethylbenzene	"	1.00	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Total Xylenes	"	4.97	----	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		111%		80 - 120 %	"				"
	Toluene-d8		104%		80 - 120 %	"				"
	4-BFB		96.4%		80 - 120 %	"				"
BSE0211-02 (M-052009)	Water			Sampled: 05/20/09 11:00						
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9E22019	05/22/09 13:06	05/22/09 20:33	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		111%		80 - 120 %	"				"
	Toluene-d8		104%		80 - 120 %	"				"
	4-BFB		98.6%		80 - 120 %	"				"
BSE0211-03 (E01-052009)	Water			Sampled: 05/20/09 11:10						
Benzene	EPA 8260B	ND	----	0.500	ug/l	1x	9E22019	05/22/09 13:06	05/22/09 21:02	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Total Xylenes	"	ND	----	3.00	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		112%		80 - 120 %	"				"
	Toluene-d8		103%		80 - 120 %	"				"
	4-BFB		99.2%		80 - 120 %	"				"

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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-06 (AMAZON LOT 34-19)		Soil			Sampled: 05/20/09 13:40					
Acenaphthene	8270C-SIM	ND	----	0.0109	mg/kg dry	1x	9E20010	05/20/09 13:50	05/20/09 20:26	
Acenaphthylene	"	ND	----	0.0109	"	"	"	"	"	"
Anthracene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0109	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0109	"	"	"	"	"	"
Chrysene	"	ND	----	0.0109	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0109	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0109	"	"	"	"	"	"
Fluorene	"	ND	----	0.0109	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0109	"	"	"	"	"	"
1-Methylnaphthalene	"	ND	----	0.0109	"	"	"	"	"	"
2-Methylnaphthalene	"	ND	----	0.0109	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0109	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0109	"	"	"	"	"	"
Pyrene	"	ND	----	0.0109	"	"	"	"	"	"
<i>Surrogate(s): p-Terphenyl-d14</i>			92.8%		46 - 125 %	"				"

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	Project Number:	[none]	05/28/09 15:57
	Project Manager:	Melanie Young	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0211-06	(AMAZON LOT 34-19)									
		Soil			Sampled: 05/20/09 13:40					
Dry Weight	BSOPSP003R0 8	91.9	----	1.00	%	1x	9E20040	05/20/09 18:11	05/21/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9E20006 Soil Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E20006-BLK1)													Extracted: 05/20/09 09:26			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 18:10			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 83.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/20/09 18:10</i>			
LCS (9E20006-BS1)													Extracted: 05/20/09 09:26			
Gasoline Range Hydrocarbons	NWTPH-Gx	55.5	---	5.00	mg/kg wet	1x	--	50.0	111%	(80-120)	--	--	05/20/09 18:43			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.8%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/20/09 18:43</i>			
Duplicate (9E20006-DUP1)													QC Source: BSE0210-01		Extracted: 05/20/09 14:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	6.73	mg/kg dry	1x	ND	--	--	--	NR (40)		05/20/09 19:48			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 107%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/20/09 19:48</i>			
Matrix Spike (9E20006-MS1)													QC Source: BSE0210-01		Extracted: 05/20/09 14:00	
Gasoline Range Hydrocarbons	NWTPH-Gx	73.5	---	6.73	mg/kg dry	1x	ND	53.4	137%	(75-130)	--	--	05/20/09 23:02	MI		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 120%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/20/09 23:02</i>			

QC Batch: 9E21005 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E21005-BLK1)													Extracted: 05/21/09 07:15			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	05/21/09 09:11			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 84.7%</i>			<i>Limits: 70-145%</i>	<i>"</i>							<i>05/21/09 09:11</i>			
LCS (9E21005-BS1)													Extracted: 05/21/09 07:15			
Gasoline Range Hydrocarbons	NWTPH-Gx	962	---	50.0	ug/l	1x	--	1000	96.2%	(80-120)	--	--	05/21/09 09:44			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.6%</i>			<i>Limits: 70-145%</i>	<i>"</i>							<i>05/21/09 09:44</i>			
Duplicate (9E21005-DUP1)													QC Source: BSE0208-21		Extracted: 05/21/09 07:15	
Gasoline Range Hydrocarbons	NWTPH-Gx	166	---	50.0	ug/l	1x	173	--	--	--	4.01% (25)		05/21/09 11:24			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.1%</i>			<i>Limits: 70-145%</i>	<i>"</i>							<i>05/21/09 11:24</i>			
Duplicate (9E21005-DUP2)													QC Source: BSE0208-22		Extracted: 05/21/09 07:15	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	NR (25)		05/21/09 12:30			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 84.9%</i>			<i>Limits: 70-145%</i>	<i>"</i>							<i>05/21/09 12:30</i>			
Matrix Spike (9E21005-MS1)													QC Source: BSE0208-21		Extracted: 05/21/09 07:15	
Gasoline Range Hydrocarbons	NWTPH-Gx	1140	---	50.0	ug/l	1x	173	1000	96.2%	(70-135)	--	--	05/21/09 13:36			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.6%</i>			<i>Limits: 70-145%</i>	<i>"</i>							<i>05/21/09 13:36</i>			

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: [none]

Project Manager: Melanie Young

Report Created:

05/28/09 15:57

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: [none] Project Manager: Melanie Young	Report Created: 05/28/09 15:57
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E21007 Water Preparation Method: EPA 3520C

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9E21007-BLK1)													Extracted: 05/21/09 08:45		
Diesel Range Hydrocarbons	NWTPH-Dx	ND	---	0.250	mg/l	1x	--	--	--	--	--	--	05/22/09 15:54		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>											05/22/09 15:54		
<i>Octacosane</i>		<i>81.8%</i>											"		
Blank (9E21007-BLK2)													Extracted: 05/21/09 08:45		
Lube Oil Range Hydrocarbons	NWTPH-Dx	ND	---	0.500	mg/l	1x	--	--	--	--	--	--	05/26/09 10:31		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>											05/26/09 10:31		
<i>Octacosane</i>		<i>114%</i>											"		
LCS (9E21007-BS1)													Extracted: 05/21/09 08:45		MNR1
Diesel Range Hydrocarbons	NWTPH-Dx	1.87	---	0.250	mg/l	1x	--	2.00	93.3%	(65-120)	--	--	05/22/09 16:17		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>											05/22/09 16:17		
<i>Octacosane</i>		<i>84.3%</i>											"		
LCS (9E21007-BS2)													Extracted: 05/21/09 08:45		MNR1
Lube Oil Range Hydrocarbons	NWTPH-Dx	2.06	---	0.500	mg/l	1x	--	2.00	103%	(70-120)	--	--	05/26/09 10:54		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>											05/26/09 10:54		
<i>Octacosane</i>		<i>93.3%</i>											"		
LCS Dup (9E21007-BSD1)													Extracted: 05/21/09 08:45		
Diesel Range Hydrocarbons	NWTPH-Dx	1.86	---	0.250	mg/l	1x	--	2.00	93.1%	(65-120)	0.221%	(25)	05/22/09 16:41		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>											05/22/09 16:41		
<i>Octacosane</i>		<i>85.7%</i>											"		
LCS Dup (9E21007-BSD2)													Extracted: 05/21/09 08:45		
Lube Oil Range Hydrocarbons	NWTPH-Dx	2.09	---	0.500	mg/l	1x	--	2.00	104%	(70-120)	1.10%	(40)	05/26/09 11:16		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>											05/26/09 11:16		
<i>Octacosane</i>		<i>93.4%</i>											"		

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: [none] Project Manager: Melanie Young	Report Created: 05/28/09 15:57
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20039 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E20039-BLK1)

Extracted: 05/20/09 18:10

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 21:52	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/20/09 21:52</i>	
<i>Octacosane</i>			<i>110%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E20039-BS1)

Extracted: 05/20/09 18:10

Lube Oil	NWTPH-Dx	71.4	---	25.0	mg/kg wet	1x	--	66.7	107%	(63-125)	--	--	05/20/09 22:16	
Diesel Range Hydrocarbons	"	80.1	---	10.0	"	"	--	"	120%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/20/09 22:16</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E20039-DUP1)

QC Source: BSE0211-06

Extracted: 05/20/09 18:10

Lube Oil	NWTPH-Dx	ND	---	27.0	mg/kg dry	1x	ND	--	--	--	50.9% (50)	--	05/20/09 22:40	R4
Kerosene	"	ND	---	10.8	"	"	ND	--	--	--	113%	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	10.8	"	"	ND	--	--	--	97.2%	"	"	R4
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/20/09 22:40</i>	
<i>Octacosane</i>			<i>121%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E20039-MS1)

QC Source: BSE0211-06

Extracted: 05/20/09 18:10

Lube Oil	NWTPH-Dx	80.2	---	27.0	mg/kg dry	1x	17.3	72.1	87.3%	(26-150)	--	--	05/20/09 23:04	
Diesel Range Hydrocarbons	"	89.5	---	10.8	"	"	8.17	"	113%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>103%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/20/09 23:04</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: [none] Project Manager: Melanie Young	Report Created: 05/28/09 15:57
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20042 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E20042-BLK1)

Extracted: 05/20/09 22:04

Cadmium	EPA 6020	ND	---	0.505	mg/kg wet	1x	--	--	--	--	--	--	05/21/09 08:47	
Arsenic	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	5.05	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	1.01	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.505	"	"	--	--	--	--	--	--	"	

LCS (9E20042-BS1)

Extracted: 05/20/09 22:04

Chromium	EPA 6020	40.2	---	0.495	mg/kg wet	1x	--	39.6	102%	(80-120)	--	--	05/21/09 08:53	
Silver	"	40.5	---	0.495	"	"	--	"	102%	"	--	--	"	
Arsenic	"	40.6	---	0.495	"	"	--	"	103%	"	--	--	"	
Barium	"	39.5	---	4.95	"	"	--	"	99.8%	"	--	--	"	
Cadmium	"	39.7	---	0.495	"	"	--	"	100%	"	--	--	"	
Selenium	"	42.2	---	0.990	"	"	--	"	107%	"	--	--	"	
Lead	"	40.2	---	0.495	"	"	--	"	101%	"	--	--	"	

Duplicate (9E20042-DUP1)

QC Source: BSE0211-06

Extracted: 05/20/09 22:04

Lead	EPA 6020	3.12	---	0.533	mg/kg dry	1x	3.27	--	--	--	4.67% (20)	--	05/21/09 09:12	
Chromium	"	26.5	---	0.533	"	"	25.4	--	--	--	4.50%	"	"	
Selenium	"	ND	---	1.07	"	"	ND	--	--	--	NR	"	"	
Barium	"	58.8	---	5.33	"	"	45.0	--	--	--	26.6%	"	"	R3
Cadmium	"	ND	---	0.533	"	"	ND	--	--	--	23.3%	"	"	R4
Arsenic	"	1.74	---	0.533	"	"	1.68	--	--	--	3.74%	"	"	
Silver	"	0.587	---	0.533	"	"	ND	--	--	--	47.2%	"	"	R4

Matrix Spike (9E20042-MS1)

QC Source: BSE0211-06

Extracted: 05/20/09 22:04

Selenium	EPA 6020	41.5	---	1.04	mg/kg dry	1x	ND	41.5	100%	(75-125)	--	--	05/21/09 09:06	
Barium	"	83.9	---	5.18	"	"	45.0	"	93.9%	"	--	--	"	
Silver	"	38.3	---	0.518	"	"	0.363	"	91.4%	"	--	--	"	
Arsenic	"	41.6	---	0.518	"	"	1.68	"	96.4%	"	--	--	"	
Chromium	"	65.3	---	0.518	"	"	25.4	"	96.4%	"	--	--	"	
Lead	"	44.3	---	0.518	"	"	3.27	"	98.9%	"	--	--	"	
Cadmium	"	40.6	---	0.518	"	"	0.101	"	97.8%	"	--	--	"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: [none] Project Manager: Melanie Young	Report Created: 05/28/09 15:57
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20042	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Post Spike (9E20042-PS1)			QC Source: BSE0211-06				Extracted: 05/20/09 22:04							
Silver	EPA 6020	0.0988	---		ug/ml	1x	0.000680	0.100	98.1%	(80-120)	--	--	05/21/09 08:59	
Chromium	"	0.153	---		"	"	0.0475	"	105%	"	--	--	"	
Cadmium	"	0.108	---		"	"	0.000190	"	107%	"	--	--	"	
Selenium	"	0.109	---		"	"	0.000230	"	109%	"	--	--	"	
Barium	"	0.188	---		"	"	0.0843	"	104%	"	--	--	"	
Lead	"	0.111	---		"	"	0.00613	"	105%	"	--	--	"	
Arsenic	"	0.111	---		"	"	0.00315	0.0995	109%	"	--	--	"	

QC Batch: 9E21019	Soil Preparation Method: EPA 7471A
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E21019-BLK1)							Extracted: 05/21/09 11:55							
Mercury	EPA 7471A	ND	---	0.0998	mg/kg wet	1x	--	--	--	--	--	--	05/21/09 12:34	
LCS (9E21019-BS1)							Extracted: 05/21/09 11:55							
Mercury	EPA 7471A	0.623	---	0.0997	mg/kg wet	1x	--	0.664	93.8%	(80-120)	--	--	05/21/09 12:37	
LCS Dup (9E21019-BSD1)							Extracted: 05/21/09 11:55							
Mercury	EPA 7471A	0.625	---	0.100	mg/kg wet	1x	--	0.668	93.6%	(80-120)	0.280% (20)		05/21/09 12:39	
Matrix Spike (9E21019-MS1)			QC Source: BSE0211-06				Extracted: 05/21/09 11:55							
Mercury	EPA 7471A	0.669	---	0.101	mg/kg dry	1x	2.48E-6	0.675	99.1%	(80-125)	--	--	05/21/09 12:42	
Matrix Spike Dup (9E21019-MSD1)			QC Source: BSE0211-06				Extracted: 05/21/09 11:55							
Mercury	EPA 7471A	0.663	---	0.101	mg/kg dry	1x	2.48E-6	0.672	98.7%	(80-125)	0.979% (30)		05/21/09 12:44	

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URS Corporation	Project Name: COP Westlake & Mercer Cleanup Project	Report Created:
1501 4th Ave, Suite 1400	Project Number: [none]	05/28/09 15:57
Seattle, WA/USA 98101-1616	Project Manager: Melanie Young	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
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Blank (9E20022-BLK1)

Extracted: 05/20/09 14:00

Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	05/20/09 16:29	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--		
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--		
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--		
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--		
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--		
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--		
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--		
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--		
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--		
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--		
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--		
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--		
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--		
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--		
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--		
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--		
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--		
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--		

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URS Corporation	Project Name: COP Westlake & Mercer Cleanup Project	Report Created:
1501 4th Ave, Suite 1400	Project Number: [none]	05/28/09 15:57
Seattle, WA/USA 98101-1616	Project Manager: Melanie Young	

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20022 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E20022-BLK1)													Extracted: 05/20/09 14:00	
Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	05/20/09 16:29	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>132%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>							<i>05/20/09 16:29</i>	
	<i>Toluene-d8</i>		<i>94.7%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>99.8%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: [none]

Project Manager: Melanie Young

Report Created:

05/28/09 15:57

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9E20022

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9E20022-BS1)													Extracted: 05/20/09 14:00	MNR1
Acetone	EPA 8260B	515	---	40.0	ug/kg wet	1x	--	500	103%	(60-140)	--	--	05/20/09 15:37	
Benzene	"	48.8	---	1.50	"	"	--	50.0	97.7%	(70-125)	--	--	"	
2-Butanone	"	495	---	30.0	"	"	--	500	99.0%	(60-140)	--	--	"	
Carbon disulfide	"	44.2	---	3.00	"	"	--	50.0	88.3%	(70-130)	--	--	"	
Chlorobenzene	"	47.5	---	2.00	"	"	--	"	95.0%	(70-125)	--	--	"	
1,1-Dichloroethane	"	46.5	---	2.00	"	"	--	"	92.9%	(75-125)	--	--	"	
1,1-Dichloroethene	"	45.9	---	3.00	"	"	--	"	91.9%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	45.6	---	3.00	"	"	--	"	91.2%	(75-125)	--	--	"	
Ethylbenzene	"	47.2	---	4.00	"	"	--	"	94.4%	(70-125)	--	--	"	
Hexachlorobutadiene	"	51.2	---	10.0	"	"	--	"	102%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	502	---	30.0	"	"	--	500	100%	(60-140)	--	--	"	
Tetrachloroethene	"	49.6	---	2.00	"	"	--	50.0	99.3%	(70-125)	--	--	"	
Toluene	"	46.0	---	1.50	"	"	--	"	92.0%	"	--	--	"	
1,1,1-Trichloroethane	"	47.9	---	2.50	"	"	--	"	95.8%	(70-130)	--	--	"	
Trichloroethene	"	46.6	---	2.50	"	"	--	"	93.1%	(70-125)	--	--	"	

Surrogate(s): 1,2-DCA-d4 Recovery: 105% Limits: 70-140% "
 Toluene-d8 95.1% 70-130% "
 4-BFB 102% 70-130% "

LCS Dup (9E20022-BSD1)

Extracted: 05/20/09 14:00

Acetone	EPA 8260B	596	---	40.0	ug/kg wet	1x	--	500	119%	(60-140)	14.5% (30)		05/20/09 16:03	
Benzene	"	53.0	---	1.50	"	"	--	50.0	106%	(70-125)	8.24%	"	"	
2-Butanone	"	529	---	30.0	"	"	--	500	106%	(60-140)	6.54%	"	"	
Carbon disulfide	"	47.9	---	3.00	"	"	--	50.0	95.8%	(70-130)	8.14%	"	"	
Chlorobenzene	"	49.0	---	2.00	"	"	--	"	97.9%	(70-125)	3.05%	"	"	
1,1-Dichloroethane	"	50.6	---	2.00	"	"	--	"	101%	(75-125)	8.57%	"	"	
1,1-Dichloroethene	"	49.9	---	3.00	"	"	--	"	99.9%	(70-130)	8.34%	"	"	
cis-1,2-Dichloroethene	"	49.8	---	3.00	"	"	--	"	99.6%	(75-125)	8.76%	"	"	
Ethylbenzene	"	48.4	---	4.00	"	"	--	"	96.7%	(70-125)	2.39%	"	"	
Hexachlorobutadiene	"	53.4	---	10.0	"	"	--	"	107%	(70-130)	4.24%	"	"	
4-Methyl-2-pentanone	"	519	---	30.0	"	"	--	500	104%	(60-140)	3.33%	"	"	
Tetrachloroethene	"	52.4	---	2.00	"	"	--	50.0	105%	(70-125)	5.49%	"	"	
Toluene	"	48.9	---	1.50	"	"	--	"	97.8%	"	6.07%	"	"	
1,1,1-Trichloroethane	"	51.0	---	2.50	"	"	--	"	102%	(70-130)	6.25%	"	"	
Trichloroethene	"	48.8	---	2.50	"	"	--	"	97.6%	(70-125)	4.70%	"	"	

Surrogate(s): 1,2-DCA-d4 Recovery: 109% Limits: 70-140% "
 Toluene-d8 101% 70-130% "
 4-BFB 97.4% 70-130% "

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: [none] Project Manager: Melanie Young	Report Created: 05/28/09 15:57
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E22019 Water Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E22019-BLK1)

Extracted: 05/22/09 13:06

Benzene	EPA 8260B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	05/22/09 15:18	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>104%</i>		<i>Limits: 80-120%</i>	<i>"</i>						<i>05/22/09 15:18</i>	
<i>Toluene-d8</i>		<i>104%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>101%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	

LCS (9E22019-BS1)

Extracted: 05/22/09 13:06

Benzene	EPA 8260B	41.9	---	0.500	ug/l	1x	--	40.0	105%	(80-120)	--	--	05/22/09 13:17	
Ethylbenzene	"	45.0	---	0.500	"	"	--	"	112%	(75-125)	--	--	"	
Toluene	"	40.4	---	0.500	"	"	--	"	101%	"	--	--	"	
Total Xylenes	"	130	---	3.00	"	"	--	120	109%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>104%</i>		<i>Limits: 80-120%</i>	<i>"</i>						<i>05/22/09 13:17</i>	
<i>Toluene-d8</i>		<i>98.2%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>98.3%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E22019-MS1)

QC Source: BSE0208-07

Extracted: 05/22/09 13:06

Benzene	EPA 8260B	43.4	---	0.500	ug/l	1x	0.150	40.0	108%	(75-130)	--	--	05/22/09 13:45	
Ethylbenzene	"	45.7	---	0.500	"	"	ND	"	114%	(75-135)	--	--	"	
Toluene	"	41.1	---	0.500	"	"	ND	"	103%	(75-125)	--	--	"	
Total Xylenes	"	134	---	3.00	"	"	0.530	120	111%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>102%</i>		<i>Limits: 80-120%</i>	<i>"</i>						<i>05/22/09 13:45</i>	
<i>Toluene-d8</i>		<i>98.3%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>97.0%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	

Matrix Spike Dup (9E22019-MSD1)

QC Source: BSE0208-07

Extracted: 05/22/09 13:06

Benzene	EPA 8260B	42.0	---	0.500	ug/l	1x	0.150	40.0	105%	(75-130)	3.28%	(25)	05/22/09 14:14	
Ethylbenzene	"	43.7	---	0.500	"	"	ND	"	109%	(75-135)	4.50%	(30)	"	
Toluene	"	39.7	---	0.500	"	"	ND	"	99.3%	(75-125)	3.37%	"	"	
Total Xylenes	"	128	---	3.00	"	"	0.530	120	106%	"	4.33%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>		<i>104%</i>		<i>Limits: 80-120%</i>	<i>"</i>						<i>05/22/09 14:14</i>	
<i>Toluene-d8</i>		<i>97.6%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>97.2%</i>		<i>80-120%</i>		<i>"</i>							<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20010 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E20010-BLK1)													Extracted: 05/20/09 10:07			
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	05/20/09 19:53			
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): p-Terphenyl-d14</i>													<i>Recovery: 95.3%</i>	<i>Limits: 46-125%</i>	<i>"</i>	<i>05/20/09 19:53</i>

LCS (9E20010-BS1)													Extracted: 05/20/09 10:07	
Acenaphthene	8270C-SIM	0.795	---	0.0100	mg/kg wet	1x	--	0.667	119%	(65-130)	--	--	05/20/09 20:52	
Acenaphthylene	"	0.896	---	0.0100	"	"	--	"	134%	(67-142)	--	--	"	
Anthracene	"	0.909	---	0.0100	"	"	--	"	136%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.810	---	0.0100	"	"	--	"	122%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.855	---	0.0100	"	"	--	"	128%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.863	---	0.0100	"	"	--	"	129%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.900	---	0.0100	"	"	--	"	135%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.850	---	0.0100	"	"	--	"	128%	"	--	--	"	
Chrysene	"	0.903	---	0.0100	"	"	--	"	135%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.826	---	0.0100	"	"	--	"	124%	(56-149)	--	--	"	
Fluoranthene	"	0.930	---	0.0100	"	"	--	"	140%	(72-145)	--	--	"	
Fluorene	"	0.844	---	0.0100	"	"	--	"	127%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.806	---	0.0100	"	"	--	"	121%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.591	---	0.0100	"	"	--	"	88.6%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.577	---	0.0100	"	"	--	"	86.6%	(56-124)	--	--	"	
Naphthalene	"	0.582	---	0.0100	"	"	--	"	87.3%	(56-146)	--	--	"	
Phenanthrene	"	0.791	---	0.0100	"	"	--	"	119%	(64-139)	--	--	"	
Pyrene	"	0.886	---	0.0100	"	"	--	"	133%	(58-149)	--	--	"	

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Kate Haney, Project Manager

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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20010 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9E20010-BS1) Extracted: 05/20/09 10:07
Surrogate(s): p-Terphenyl-d14 Recovery: 83.2% Limits: 46-125% 1x 05/20/09 20:52

Matrix Spike (9E20010-MS1) QC Source: BSE0190-17 Extracted: 05/20/09 10:07

Acenaphthene	8270C-SIM	0.798	---	0.0102	mg/kg dry	1x	ND	0.680	117%	(64-140)	--	--	05/20/09 21:17	
Acenaphthylene	"	0.913	---	0.0102	"	"	ND	"	134%	(66-150)	--	--	"	
Anthracene	"	0.919	---	0.0102	"	"	0.00537	"	134%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.837	---	0.0102	"	"	0.0103	"	122%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.876	---	0.0102	"	"	0.0101	"	127%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.993	---	0.0102	"	"	0.0101	"	145%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.930	---	0.0102	"	"	0.0105	"	135%	"	--	--	"	
Benzo (ghi) perylene	"	0.872	---	0.0102	"	"	0.00673	"	127%	"	--	--	"	
Chrysene	"	0.934	---	0.0102	"	"	0.0153	"	135%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.834	---	0.0102	"	"	0.00285	"	122%	(55-150)	--	--	"	
Fluoranthene	"	0.923	---	0.0102	"	"	0.0285	"	132%	(70-150)	--	--	"	
Fluorene	"	0.851	---	0.0102	"	"	ND	"	125%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.819	---	0.0102	"	"	0.00537	"	120%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.597	---	0.0102	"	"	ND	"	87.8%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.589	---	0.0102	"	"	ND	"	86.6%	(50-140)	--	--	"	
Naphthalene	"	0.594	---	0.0102	"	"	ND	"	87.3%	(47-147)	--	--	"	
Phenanthrene	"	0.804	---	0.0102	"	"	0.0185	"	116%	(56-150)	--	--	"	
Pyrene	"	0.951	---	0.0102	"	"	0.0257	"	136%	(57-150)	--	--	"	

Surrogate(s): p-Terphenyl-d14 Recovery: 86.2% Limits: 46-125% " 05/20/09 21:17

Matrix Spike Dup (9E20010-MSD1) QC Source: BSE0190-17 Extracted: 05/20/09 10:07

Acenaphthene	8270C-SIM	0.764	---	0.0102	mg/kg dry	1x	ND	0.680	112%	(64-140)	4.35%	(41)	05/20/09 21:43	
Acenaphthylene	"	0.876	---	0.0102	"	"	ND	"	129%	(66-150)	4.17%	"	"	
Anthracene	"	0.888	---	0.0102	"	"	0.00537	"	130%	(54-150)	3.42%	"	"	
Benzo (a) anthracene	"	0.803	---	0.0102	"	"	0.0103	"	117%	(57-150)	4.17%	"	"	
Benzo (a) pyrene	"	0.859	---	0.0102	"	"	0.0101	"	125%	(55-150)	1.96%	(35)	"	
Benzo (b) fluoranthene	"	0.874	---	0.0102	"	"	0.0101	"	127%	(54-150)	12.8%	(41)	"	
Benzo (k) fluoranthene	"	0.887	---	0.0102	"	"	0.0105	"	129%	"	4.77%	"	"	
Benzo (ghi) perylene	"	0.887	---	0.0102	"	"	0.00673	"	130%	"	1.75%	"	"	
Chrysene	"	0.898	---	0.0102	"	"	0.0153	"	130%	(65-150)	3.90%	(40)	"	
Dibenz (a,h) anthracene	"	0.848	---	0.0102	"	"	0.00285	"	124%	(55-150)	1.68%	(41)	"	
Fluoranthene	"	0.881	---	0.0102	"	"	0.0285	"	125%	(70-150)	4.72%	"	"	
Fluorene	"	0.831	---	0.0102	"	"	ND	"	122%	(74-150)	2.30%	(44)	"	
Indeno (1,2,3-cd) pyrene	"	0.831	---	0.0102	"	"	0.00537	"	121%	(50-150)	1.44%	"	"	
1-Methylnaphthalene	"	0.579	---	0.0102	"	"	ND	"	85.2%	(45-145)	3.06%	(41)	"	
2-Methylnaphthalene	"	0.570	---	0.0102	"	"	ND	"	83.8%	(50-140)	3.34%	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: [none] Project Manager: Melanie Young	Report Created: 05/28/09 15:57
--	--	-----------------------------------

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20010 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9E20010-MSD1)			QC Source: BSE0190-17				Extracted: 05/20/09 10:07							
Naphthalene	8270C-SIM	0.569	---	0.0102	mg/kg dry	1x	ND	0.680	83.6%	(47-147)	4.33%	(41)	05/20/09 21:43	
Phenanthrene	"	0.777	---	0.0102	"	"	0.0185	"	112%	(56-150)	3.48%	"	"	
Pyrene	"	0.899	---	0.0102	"	"	0.0257	"	128%	(57-150)	5.57%	"	"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 81.9%	Limits: 46-125%		"								05/20/09 21:43	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: COP Westlake & Mercer Cleanup Project Project Number: [none] Project Manager: Melanie Young	Report Created: 05/28/09 15:57
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20040 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E20040-BLK1)										Extracted: 05/20/09 18:11				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/21/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: [none]

Project Manager: Melanie Young

Report Created:

05/28/09 15:57

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
EPA 8260B	Water	X	X
NWTPH-Dx	Soil		X
NWTPH-Dx	Water		X
NWTPH-Gx	Soil		X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **COP Westlake & Mercer Cleanup Project**

Project Number: [none]

Project Manager: Melanie Young

Report Created:

05/28/09 15:57

Notes and Definitions

Report Specific Notes:

- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Q1 - Does not match typical pattern
- Q12 - Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel or possibly biogenic interference.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSE0211**

CLIENT: WRS Corp		INVOICE TO: WRS Seattle - Melanie Young 1501 4th Ave Seattle		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses	
REPORT TO: MELANIE YOUNG		P.O. NUMBER:		<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> <1 <input checked="" type="checkbox"/> STD	
PHONE:		PROJECT NAME: WMEP Phase II		OTHER: Specify: SH	
PROJECT NUMBER:		PRESERVATIVE		* Turnaround Requests less than standard may incur Rush Charges.	
SAMPLED BY: Matthew McKibbin		REQUESTED ANALYSES		MATRIX (W, S, O)	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	HCl	HCl	HCl	TA WO ID
1. 1I-052009	5-20-09 / 1050	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7 -01
2. 1M-052009	" / 1100	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7 -02
3. 1E01-052009	" / 1110	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7 -03
4. 1E02-052009	" / 1120	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4 -04
5. 1E03-052009	" / 1130	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4 -05
6. Amazon lot 34-19	" / 1340	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4 Clean Fill See Remarks -06
7.					
8.					
9.					
10.					
RELEASED BY: Matt Mee	DATE: 5-20-09	RECEIVED BY: Francisco Lirio, Jr.	DATE: 5/20/09	FIRM: T A - SEA	DATE: 5/20/09
PRINT NAME: Matthew McKibbin	TIME: 1200	PRINT NAME:	TIME: 1200	FIRM:	TIME: 1545
RELEASED BY:	DATE:	RECEIVED BY:	DATE:	FIRM:	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:	FIRM:	TIME:
ADDITIONAL REMARKS: 24-hr TAT on soil sample		TEMP: 3.4°C		PAGE OF	

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances? _____
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 5/20/09 Date: 05-20 Date: 05-20 Date: no one available Work Order No. BSE0211
 Time: 1610 Time: 1706 Time: 1700 Time: _____ Client: _____
 Initials: FL Initials: CW Initials: CW Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ _____ Foam Packs
 _____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier
 _____ None/Other _____ Initial/date/time _____ _____ DHL _____ Mid Valley
 _____ Senvoy _____ TDP
 _____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 3.4 or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID		ID
Intact?	<input checked="" type="radio"/> Y or N	_____	Metals Preserved? Y or N or <input checked="" type="radio"/> NA <u>soil</u>
Provided by TA?	<input checked="" type="radio"/> Y or N	_____	Client QAPP Preserved? Y or N or <input checked="" type="radio"/> NA
Correct Type?	<input checked="" type="radio"/> Y or N	_____	Adequate Volume? <input checked="" type="radio"/> Y or N _____ (for tests requested)
#Containers match COC?	<input checked="" type="radio"/> Y or N	_____	Water VOAs: Headspace? Y or <input checked="" type="radio"/> N or NA _____
IDs/time/date match COC?	<input checked="" type="radio"/> Y or N	_____	Comments: _____
Hold Times in hold?	<input checked="" type="radio"/> Y or N	_____	_____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

May 22, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/21/09 14:45.
The following list is a summary of the Work Orders contained in this report, generated on 05/22/09
15:37.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0225	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/22/09 15:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-G2-6	BSE0225-01	Soil	05/21/09 13:30	05/21/09 14:45
AREA1-G3-7	BSE0225-02	Soil	05/21/09 13:40	05/21/09 14:45

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/22/09 15:37

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0225-01 (AREA1-G2-6)		Soil		Sampled: 05/21/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.58	5.64	mg/kg dry	1x	9E20007	05/21/09 18:49	05/21/09 22:33	
<i>Surrogate(s): 4-BFB (FID)</i>			100%		75 - 140 %	"				"
BSE0225-02 (AREA1-G3-7)		Soil		Sampled: 05/21/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.61	5.74	mg/kg dry	1x	9E20007	05/21/09 18:49	05/21/09 23:05	
<i>Surrogate(s): 4-BFB (FID)</i>			105%		75 - 140 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/22/09 15:37

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0225-01 (AREA1-G2-6)		Soil		Sampled: 05/21/09 13:30						
Lube Oil	NWTPH-Dx	ND	----	29.3	mg/kg dry	1x	9E21027	05/21/09 14:25	05/22/09 13:28	
Kerosene	"	ND	----	11.7	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	11.7	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>			78.8%		54 - 148 %	"				"
<i>Octacosane</i>			94.5%		62 - 142 %	"				"
BSE0225-02 (AREA1-G3-7)		Soil		Sampled: 05/21/09 13:40						
Lube Oil	NWTPH-Dx	ND	----	30.2	mg/kg dry	1x	9E21027	05/21/09 14:25	05/22/09 13:51	
Kerosene	"	ND	----	12.1	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	12.1	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>			79.3%		54 - 148 %	"				"
<i>Octacosane</i>			90.1%		62 - 142 %	"				"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/22/09 15:37

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0225-01 (AREA1-G2-6)		Soil		Sampled: 05/21/09 13:30						
Lead	EPA 6020	1.45	----	0.569	mg/kg dry	1x	9E22002	05/22/09 05:54	05/22/09 09:25	
BSE0225-02 (AREA1-G3-7)		Soil		Sampled: 05/21/09 13:40						
Lead	EPA 6020	2.37	----	0.607	mg/kg dry	1x	9E22002	05/22/09 05:54	05/22/09 09:52	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/22/09 15:37

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0225-01 (AREA1-G2-6)

Soil

Sampled: 05/21/09 13:30

Benzene	EPA 8260B	ND	----	0.000886	mg/kg dry	1x	9E21034	05/21/09 15:26	05/21/09 17:50	
Ethylbenzene	"	ND	----	0.00236	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000591	"	"	"	"	"	
Naphthalene	"	ND	----	0.00591	"	"	"	"	"	
Toluene	"	ND	----	0.000886	"	"	"	"	"	
o-Xylene	"	ND	----	0.00295	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00295	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00591	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	137%		70 - 140 %	"					"
	Toluene-d8	96.4%		70 - 130 %	"					"
	4-BFB	95.6%		70 - 130 %	"					"

BSE0225-02 (AREA1-G3-7)

Soil

Sampled: 05/21/09 13:40

Benzene	EPA 8260B	ND	----	0.000832	mg/kg dry	1x	9E21034	05/21/09 15:26	05/21/09 18:40	
Ethylbenzene	"	ND	----	0.00222	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000555	"	"	"	"	"	
Naphthalene	"	ND	----	0.00555	"	"	"	"	"	
Toluene	"	ND	----	0.000832	"	"	"	"	"	
o-Xylene	"	ND	----	0.00277	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00277	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00555	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	140%		70 - 140 %	"					"
	Toluene-d8	94.1%		70 - 130 %	"					"
	4-BFB	99.6%		70 - 130 %	"					"

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/22/09 15:37

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0225-01 (AREA1-G2-6)		Soil		Sampled: 05/21/09 13:30						
Dry Weight	BSOPSP003R0 8	85.3	----	1.00	%	1x	9E21035	05/21/09 16:24	05/22/09 00:00	
BSE0225-02 (AREA1-G3-7)		Soil		Sampled: 05/21/09 13:40						
Dry Weight	BSOPSP003R0 8	82.4	----	1.00	%	1x	9E21035	05/21/09 16:24	05/22/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/22/09 15:37
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E20007 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E20007-BLK1)										Extracted: 05/20/09 09:41				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/21/09 20:24	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 77.6%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/21/09 20:24</i>
LCS (9E20007-BS1)										Extracted: 05/20/09 09:41				
Gasoline Range Hydrocarbons	NWTPH-Gx	50.8	1.40	5.00	mg/kg wet	1x	--	50.0	102%	(80-120)	--	--	05/21/09 20:56	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 104%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/21/09 20:56</i>
Duplicate (9E20007-DUP1)										QC Source: BSE0213-01		Extracted: 05/20/09 09:41		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.80	6.43	mg/kg dry	1x	ND	--	--	--	NR (40)		05/21/09 22:01	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 111%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/21/09 22:01</i>
Matrix Spike (9E20007-MS1)										QC Source: BSE0213-01		Extracted: 05/20/09 09:41		
Gasoline Range Hydrocarbons	NWTPH-Gx	70.5	1.80	6.43	mg/kg dry	1x	ND	50.3	140%	(75-130)	--	--	05/22/09 01:14	ZX
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 124%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/22/09 01:14</i>
Matrix Spike Dup (9E20007-MSD1)										QC Source: BSE0213-01		Extracted: 05/20/09 09:41		
Gasoline Range Hydrocarbons	NWTPH-Gx	73.7	1.80	6.43	mg/kg dry	1x	ND	50.3	146%	(75-130)	4.35% (25)		05/22/09 12:18	ZX
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 130%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/22/09 12:18</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/22/09 15:37
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E21027 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E21027-BLK1)

Extracted: 05/21/09 12:51

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/22/09 11:04	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>81.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/22/09 11:04</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>93.9%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E21027-BS1)

Extracted: 05/21/09 12:51

Lube Oil	NWTPH-Dx	59.1	---	25.0	mg/kg wet	1x	--	66.7	88.7%	(63-125)	--	--	05/22/09 11:28	
Diesel Range Hydrocarbons	"	66.8	---	10.0	"	"	--	"	100%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>81.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/22/09 11:28</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>90.3%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E21027-DUP1)

QC Source: BSE0213-01

Extracted: 05/21/09 12:51

Lube Oil	NWTPH-Dx	ND	---	31.5	mg/kg dry	1x	ND	--	--	--	4.16%	(50)	05/22/09 11:51	
Kerosene	"	ND	---	12.6	"	"	ND	--	--	--	3.17%	"	"	
Diesel Range Hydrocarbons	"	ND	---	12.6	"	"	ND	--	--	--	8.60%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>79.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/22/09 11:51</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>89.1%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E21027-MS1)

QC Source: BSE0213-01

Extracted: 05/21/09 12:51

Lube Oil	NWTPH-Dx	76.3	---	31.9	mg/kg dry	1x	2.37	85.0	87.0%	(26-150)	--	--	05/22/09 12:15	
Diesel Range Hydrocarbons	"	84.5	---	12.8	"	"	1.41	"	97.7%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>82.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/22/09 12:15</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>88.1%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/22/09 15:37
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E22002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E22002-BLK1)								Extracted: 05/22/09 05:54						
Lead	EPA 6020	ND	---	0.510	mg/kg wet	1x	--	--	--	--	--	--	05/22/09 08:29	
LCS (9E22002-BS1)								Extracted: 05/22/09 05:54						
Lead	EPA 6020	41.7	---	0.500	mg/kg wet	1x	--	40.0	104%	(80-120)	--	--	05/22/09 08:35	
Duplicate (9E22002-DUP1)				QC Source: BSE0213-01				Extracted: 05/22/09 05:54						
Lead	EPA 6020	5.92	---	0.640	mg/kg dry	1x	6.08	--	--	--	2.62% (20)	--	05/22/09 09:13	
Matrix Spike (9E22002-MS1)				QC Source: BSE0213-01				Extracted: 05/22/09 05:54						
Lead	EPA 6020	53.0	---	0.592	mg/kg dry	1x	6.08	47.4	99.0%	(75-125)	--	--	05/22/09 09:06	
Post Spike (9E22002-PS1)				QC Source: BSE0213-01				Extracted: 05/22/09 05:54						
Lead	EPA 6020	0.120	---		ug/ml	1x	0.00978	0.100	110%	(80-120)	--	--	05/22/09 09:00	

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/22/09 15:37
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E21034 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E21034-BLK1)													Extracted: 05/21/09 15:26	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/21/09 16:33	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>129%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/21/09 16:33</i>	
<i>Toluene-d8</i>			<i>95.0%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>96.5%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E21034-BS1)													Extracted: 05/21/09 15:26	
Benzene	EPA 8260B	0.0490	---	0.00150	mg/kg wet	1x	--	0.0500	98.1%	(70-125)	--	--	05/21/09 15:42	
Ethylbenzene	"	0.0460	---	0.00400	"	"	--	"	91.9%	"	--	--	"	
Methyl tert-butyl ether	"	0.0477	---	0.00100	"	"	--	"	95.4%	(70-130)	--	--	"	
Naphthalene	"	0.0499	---	0.0100	"	"	--	"	99.8%	"	--	--	"	
Toluene	"	0.0419	---	0.00150	"	"	--	"	83.9%	(70-125)	--	--	"	
Total Xylenes	"	0.138	---	0.0100	"	"	--	0.150	91.8%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/21/09 15:42</i>	
<i>Toluene-d8</i>			<i>93.7%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>99.7%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E21034-BSD1)													Extracted: 05/21/09 15:26	
Benzene	EPA 8260B	0.0490	---	0.00150	mg/kg wet	1x	--	0.0500	98.0%	(70-125)	0.0408% (30)		05/21/09 16:07	
Ethylbenzene	"	0.0461	---	0.00400	"	"	--	"	92.1%	"	0.196%	"	"	
Methyl tert-butyl ether	"	0.0446	---	0.00100	"	"	--	"	89.1%	(70-130)	6.83%	"	"	
Naphthalene	"	0.0482	---	0.0100	"	"	--	"	96.4%	"	3.49%	"	"	
Toluene	"	0.0454	---	0.00150	"	"	--	"	90.9%	(70-125)	7.99%	"	"	
Total Xylenes	"	0.138	---	0.0100	"	"	--	0.150	92.0%	(70-130)	0.210%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/21/09 16:07</i>	
<i>Toluene-d8</i>			<i>97.4%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>103%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/22/09 15:37
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E21035 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E21035-BLK1)										Extracted: 05/21/09 14:25				
Dry Weight	BSOPSPL00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/22/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/22/09 15:37

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/22/09 15:37

Notes and Definitions

Report Specific Notes:

ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TAT: _____

Paperwork to PM – Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____

(applies to temp at receipt)

Date: 5/21/09 Date: 5/21/09 Date: 5/21/09 Date: 05-21-09 Work Order No. BSE0225
 Time: 1445 Time: 1503 Time: 1505 Time: 1530 Client: _____
 Initials: EL Initials: EL Initials: EL Initials: CW Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam _____
 _____ Box _____ On Bottles _____ Date _____ _____ Foam Packs _____
 _____ None/Other _____ None _____ _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client _____
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier _____
 _____ None/Other _____ Initial/date/time _____ _____ DHL _____ Mid Valley _____
 _____ _____ _____ Senvoy _____ TDP _____
 _____ _____ _____ GS _____ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? 3.6 or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="checkbox"/> or N _____	Metals Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Provided by TA? <input checked="" type="checkbox"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Correct Type? <input checked="" type="checkbox"/> or N _____	Adequate Volume? <input checked="" type="checkbox"/> or N _____	
#Containers match COC? <input checked="" type="checkbox"/> or N _____	(for tests requested) Water VOAs: Headspace? Y or N or <input checked="" type="checkbox"/> NA _____	
IDs/time/date match COC? <input checked="" type="checkbox"/> or N _____	Comments: _____	
Hold Times in hold? <input checked="" type="checkbox"/> or N _____		

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

May 26, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/22/09 14:00.
The following list is a summary of the Work Orders contained in this report, generated on 05/26/09
17:09.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0242	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/26/09 17:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-F1-4	BSE0242-01	Soil	05/22/09 09:00	05/22/09 14:00

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/26/09 17:09

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0242-01 (AREA1-F1-4)		Soil		Sampled: 05/22/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.79	9.95	mg/kg dry	1x	9E22032	05/22/09 14:45	05/23/09 01:56	M1
<i>Surrogate(s): 4-BFB (FID)</i>			<i>128%</i>		<i>75 - 140 %</i>	<i>"</i>			<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/26/09 17:09

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0242-01 (AREA1-F1-4)		Soil			Sampled: 05/22/09 09:00					
Lube Oil	NWTPH-Dx	ND	----	41.1	mg/kg dry	1x	9E22024	05/22/09 12:57	05/26/09 12:14	
Kerosene	"	ND	----	16.4	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	16.4	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				87.8%		54 - 148 %	"			"
<i>Octacosane</i>				112%		62 - 142 %	"			"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/26/09 17:09

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0242-01	(AREA1-F1-4)									
			Soil				Sampled: 05/22/09 09:00			
Lead	EPA 6020	6.70	----	0.813	mg/kg dry	1x	9E22045	05/22/09 17:19	05/26/09 09:14	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/26/09 17:09

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0242-01	(AREA1-F1-4)	Soil		Sampled: 05/22/09 09:00						
Benzene	EPA 8260B	0.00310	----	0.00144	mg/kg dry	1x	9E22031	05/22/09 16:46	05/22/09 18:07	
Ethylbenzene	"	ND	----	0.00385	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.000963	"	"	"	"	"	"
Naphthalene	"	ND	----	0.00963	"	"	"	"	"	"
Toluene	"	ND	----	0.00144	"	"	"	"	"	"
o-Xylene	"	ND	----	0.00482	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.00482	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.00963	"	"	"	"	"	"
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>124%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>99.1%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>102%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	05/26/09 17:09
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0242-01	(AREA1-F1-4)	Soil			Sampled: 05/22/09 09:00					
Dry Weight	BSOPSPL003R0 8	60.3	----	1.00	%	1x	9E22025	05/22/09 12:59	05/26/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/26/09 17:09
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E22032 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E22032-BLK1)

Extracted: 05/22/09 14:45

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/22/09 23:46	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/22/09 23:46</i>	

LCS (9E22032-BS1)

Extracted: 05/22/09 14:45

Gasoline Range Hydrocarbons	NWTPH-Gx	53.0	1.40	5.00	mg/kg wet	1x	--	50.0	106%	(80-120)	--	--	05/23/09 00:51	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.2%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/23/09 00:51</i>	

Duplicate (9E22032-DUP1)

QC Source: BSE0242-01

Extracted: 05/22/09 14:45

Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.79	9.95	mg/kg dry	1x	ND	--	--	--	NR (40)		05/23/09 02:28	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 128%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/23/09 02:28</i>	

Matrix Spike (9E22032-MS1)

QC Source: BSE0242-01

Extracted: 05/22/09 14:45

Gasoline Range Hydrocarbons	NWTPH-Gx	113	2.79	9.95	mg/kg dry	1x	ND	66.6	169%	(75-130)	--	--	05/23/09 03:01	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 146%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/23/09 03:01</i>	ZX

Matrix Spike Dup (9E22032-MSD1)

QC Source: BSE0242-01

Extracted: 05/22/09 14:45

Gasoline Range Hydrocarbons	NWTPH-Gx	123	2.79	9.95	mg/kg dry	1x	ND	66.6	184%	(75-130)	8.31% (25)		05/23/09 03:33	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 146%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>05/23/09 03:33</i>	ZX

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/26/09 17:09
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E22024 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E22024-BLK1)

Extracted: 05/22/09 12:57

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/26/09 10:38	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/26/09 10:38</i>	
<i>Octacosane</i>			<i>116%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E22024-BS1)

Extracted: 05/22/09 12:57

Lube Oil	NWTPH-Dx	69.7	---	25.0	mg/kg wet	1x	--	66.7	105%	(63-125)	--	--	05/26/09 11:02	
Diesel Range Hydrocarbons	"	77.6	---	10.0	"	"	--	"	116%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/26/09 11:02</i>	
<i>Octacosane</i>			<i>114%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E22024-DUP1)

QC Source: BSE0242-01

Extracted: 05/22/09 12:57

Lube Oil	NWTPH-Dx	ND	---	41.3	mg/kg dry	1x	ND	--	--	--	5.63% (50)	--	05/26/09 11:26	
Kerosene	"	ND	---	16.5	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	16.5	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/26/09 11:26</i>	
<i>Octacosane</i>			<i>115%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E22024-MS1)

QC Source: BSE0242-01

Extracted: 05/22/09 12:57

Lube Oil	NWTPH-Dx	113	---	41.1	mg/kg dry	1x	7.18	109	97.0%	(26-150)	--	--	05/26/09 11:50	
Diesel Range Hydrocarbons	"	126	---	16.4	"	"	ND	"	115%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>95.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/26/09 11:50</i>	
<i>Octacosane</i>			<i>111%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/26/09 17:09
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E22045 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E22045-BLK1)								Extracted: 05/22/09 17:19						
Lead	EPA 6020	ND	---	0.505	mg/kg wet	1x	--	--	--	--	--	--	05/26/09 08:18	
LCS (9E22045-BS1)								Extracted: 05/22/09 17:19						
Lead	EPA 6020	42.5	---	0.510	mg/kg wet	1x	--	40.8	104%	(80-120)	--	--	05/26/09 08:24	
Duplicate (9E22045-DUP1)				QC Source: BSE0241-01				Extracted: 05/22/09 17:19						
Lead	EPA 6020	9.61	---	0.551	mg/kg dry	1x	11.5	--	--	--	18.0% (20)	--	05/26/09 08:43	
Matrix Spike (9E22045-MS1)				QC Source: BSE0241-01				Extracted: 05/22/09 17:19						
Lead	EPA 6020	55.3	---	0.556	mg/kg dry	1x	11.5	44.5	98.3%	(75-125)	--	--	05/26/09 08:36	
Post Spike (9E22045-PS1)				QC Source: BSE0241-01				Extracted: 05/22/09 17:19						
Lead	EPA 6020	0.129	---		ug/ml	1x	0.0207	0.100	108%	(80-120)	--	--	05/26/09 08:30	

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Kate Haney, Project Manager

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E22031 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E22031-BLK1)													Extracted: 05/22/09 16:46	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/22/09 17:41	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>134%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/22/09 17:41</i>	
<i>Toluene-d8</i>			<i>92.6%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E22031-BS1)													Extracted: 05/22/09 16:46	
Benzene	EPA 8260B	0.0531	---	0.00150	mg/kg wet	1x	--	0.0500	106%	(70-125)	--	--	05/22/09 16:50	
Ethylbenzene	"	0.0498	---	0.00400	"	"	--	"	99.6%	"	--	--	"	
Methyl tert-butyl ether	"	0.0547	---	0.00100	"	"	--	"	109%	(70-130)	--	--	"	
Naphthalene	"	0.0551	---	0.0100	"	"	--	"	110%	"	--	--	"	
Toluene	"	0.0461	---	0.00150	"	"	--	"	92.2%	(70-125)	--	--	"	
Total Xylenes	"	0.150	---	0.0100	"	"	--	0.150	99.9%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>113%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/22/09 16:50</i>	
<i>Toluene-d8</i>			<i>94.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>99.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E22031-BS1)													Extracted: 05/22/09 16:46	
Benzene	EPA 8260B	0.0497	---	0.00150	mg/kg wet	1x	--	0.0500	99.4%	(70-125)	6.61% (30)		05/22/09 17:15	
Ethylbenzene	"	0.0465	---	0.00400	"	"	--	"	93.0%	"	6.86%	"	"	
Methyl tert-butyl ether	"	0.0467	---	0.00100	"	"	--	"	93.4%	(70-130)	15.7%	"	"	
Naphthalene	"	0.0490	---	0.0100	"	"	--	"	98.0%	"	11.7%	"	"	
Toluene	"	0.0448	---	0.00150	"	"	--	"	89.6%	(70-125)	2.93%	"	"	
Total Xylenes	"	0.138	---	0.0100	"	"	--	0.150	92.1%	(70-130)	8.14%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/22/09 17:15</i>	
<i>Toluene-d8</i>			<i>97.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>100%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 05/26/09 17:09
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E22025 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E22025-BLK1)										Extracted: 05/22/09 12:59				
Dry Weight	BSOPSP00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/26/09 00:00	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/26/09 17:09

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

05/26/09 17:09

Notes and Definitions

Report Specific Notes:

- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BS E 0242**

CLIENT: CONDO PARTNERS		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: WMLP Staff		P.O. NUMBER:		<input type="checkbox"/> 10 STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Organic & Inorganic Analyses	
PHONE:		PROJECT NAME: WMLP Phase II		<input type="checkbox"/> 10 STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses	
FAX:		PROJECT NUMBER:		OTHER Specify: 24-hr * Turnaround Requests less than standard may incur Rush Charges.	
SAMPLED BY: Matthew Niskibin		PRESERVATIVE		MATRIX (W, S, O)	
CLIENT SAMPLE IDENTIFICATION		REQUESTED ANALYSES		# OF CONT.	
SAMPLING DATE/TIME		DATE/TIME		LOCATION/ COMMENTS	
1 Arenal-Fl-4		5-22-09 / 0900		S 4 Silt & Sand -01	
2					
3					
4					
5					
6					
7					
8					
9					
10					
RELEASED BY: Matthew Niskibin		DATE: 5-22-09		RECEIVED BY: Francisco Lung, Jr.	
PRINT NAME: Matthew Niskibin		TIME: 1045		FIRM: TA-SEA	
FIRM: MNS		DATE: 5-22-09		DATE: 5/22/09	
FIRM: MNS		TIME: 1045		TIME: 1045	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
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FIRM: MNS		TIME: 1045		DATE: 5/22/09	
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FIRM: MNS		TIME: 1045		DATE: 5/22/09	
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FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
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FIRM: MNS		TIME: 1045		DATE: 5/22/09	
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FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
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FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
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FIRM: MNS		TIME: 1045		DATE: 5/22/09	
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FIRM: MNS		TIME: 1045		DATE: 5/22/09	
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FIRM: MNS		TIME: 1045		DATE: 5/22/09	
FIRM: MNS		DATE: 5-22-09		FIRM: TA-SEA	
FIRM: MNS		TIME: 1045		DATE: 5/22/09	
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TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt) _____
 Date: 5/22/09 Date: 5/22/09 Date: 5/22/09 Date: _____ ^{Taken Away} Work Order No. BSE0242
 Time: 1400 Time: 1419 Time: 1445 Time: _____ Client: _____
 Initials: EL Initials: FL Initials: FL Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs
 _____ None/Other _____ None _____ None/Other Plastic Bag

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ or N or NA UPS TA Courier
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley
 _____ GS _____ Senvoy _____ TDP
 _____ Other _____

Cooler Temperature (IR): 14.9 °C Plastic Glass (circle one) (Frozen filters, Tedlars and aqueous Metals exempt)
 Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

<u>Sample Containers:</u>	<u>ID</u>	<u>ID</u>
Intact? <input checked="" type="radio"/> or N _____	Metals Preserved? Y or N or <input checked="" type="radio"/> NA _____	
Provided by TA? <input checked="" type="radio"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="radio"/> NA _____	
Correct Type? <input checked="" type="radio"/> or N _____	Adequate Volume? <input checked="" type="radio"/> or N _____ (for tests requested)	
#Containers match COC? <input checked="" type="radio"/> or N _____	Water VOAs: Headspace? Y or N or <input checked="" type="radio"/> NA _____	
IDs/time/date match COC? <input checked="" type="radio"/> or N _____	Comments: _____	
Hold Times in hold? <input checked="" type="radio"/> or N _____		

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

June 01, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/28/09 15:40.
The following list is a summary of the Work Orders contained in this report, generated on 06/01/09
13:14.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0272	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 13:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-I1-14	BSE0272-01	Soil	05/28/09 08:00	05/28/09 15:40
Area1-I1-9	BSE0272-02	Soil	05/28/09 08:15	05/28/09 15:40
Area1-I2-4	BSE0272-03	Soil	05/28/09 09:20	05/28/09 15:40
Area1-I4-9	BSE0272-04	Soil	05/28/09 09:35	05/28/09 15:40
Area1-I4-7	BSE0272-05	Soil	05/28/09 09:40	05/28/09 15:40
Area1-I4-4	BSE0272-06	Soil	05/28/09 09:45	05/28/09 15:40
Area1-J1-14	BSE0272-07	Soil	05/28/09 10:20	05/28/09 15:40
Area1-J1-9	BSE0272-08	Soil	05/28/09 10:25	05/28/09 15:40
Area1-J2-9	BSE0272-09	Soil	05/28/09 10:45	05/28/09 15:40
Area1-J2-7	BSE0272-10	Soil	05/28/09 10:50	05/28/09 15:40
Area1-J2-4	BSE0272-11	Soil	05/28/09 10:55	05/28/09 15:40

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 13:14

Analytical Case Narrative

TestAmerica - Seattle, WA

BSE0272

SAMPLE RECEIPT

The samples were received 05/28/2009 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 5.4 degrees Celsius.

The methanol vial received for sample Area-1-I4-9 listed a sampled time of 0835. The COC listed the sampled time as 0935. The sample was logged in per the COC.

PREPARATIONS AND ANALYSIS

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-01 (Area1-I1-14)		Soil		Sampled: 05/28/09 08:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.20	1.66	5.92	mg/kg dry	1x	9E28009	05/28/09 14:00	05/29/09 03:46	J
Surrogate(s): 4-BFB (FID)			107%		75 - 140 %	"			"	
BSE0272-02 (Area1-I1-9)		Soil		Sampled: 05/28/09 08:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.12	7.56	mg/kg dry	1x	9E28009	05/28/09 14:00	05/29/09 04:19	
Surrogate(s): 4-BFB (FID)			112%		75 - 140 %	"			"	
BSE0272-03 (Area1-I2-4)		Soil		Sampled: 05/28/09 09:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.63	5.82	mg/kg dry	1x	9E28009	05/28/09 14:00	05/29/09 04:51	
Surrogate(s): 4-BFB (FID)			96.6%		75 - 140 %	"			"	
BSE0272-04 (Area1-I4-9)		Soil		Sampled: 05/28/09 09:35						
Gasoline Range Hydrocarbons	NWTPH-Gx	49.9	6.44	23.0	mg/kg dry	1x	9E28009	05/28/09 14:00	05/29/09 05:24	
Surrogate(s): 4-BFB (FID)			144%		75 - 140 %	"			"	ZX
BSE0272-05 (Area1-I4-7)		Soil		Sampled: 05/28/09 09:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	4.14	14.8	mg/kg dry	1x	9E28009	05/28/09 14:00	05/29/09 05:56	
Surrogate(s): 4-BFB (FID)			131%		75 - 140 %	"			"	
BSE0272-06 (Area1-I4-4)		Soil		Sampled: 05/28/09 09:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.77	6.30	mg/kg dry	1x	9E28009	05/28/09 14:00	05/29/09 06:29	
Surrogate(s): 4-BFB (FID)			105%		75 - 140 %	"			"	
BSE0272-07 (Area1-J1-14)		Soil		Sampled: 05/28/09 10:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	270	1.52	5.44	mg/kg dry	1x	9E28009	05/28/09 14:00	05/29/09 07:01	
Surrogate(s): 4-BFB (FID)			180%		75 - 140 %	"			"	ZX
BSE0272-08 (Area1-J1-9)		Soil		Sampled: 05/28/09 10:25						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.57	5.61	mg/kg dry	1x	9E28006	05/28/09 14:00	05/29/09 02:03	C
Surrogate(s): 4-BFB (FID)			120%		75 - 140 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-09 (Area1-J2-9)		Soil			Sampled: 05/28/09 10:45					
Gasoline Range Hydrocarbons	NWTPH-Gx	18.3	13.8	49.2	mg/kg dry	1x	9E28006	05/28/09 14:00	05/29/09 02:36	J, C8
Surrogate(s): 4-BFB (FID)			134%		75 - 140 %	"			"	
BSE0272-09RE1 (Area1-J2-9)		Soil			Sampled: 05/28/09 10:45					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	8.50	30.3	mg/kg dry	1x	9E30008	05/30/09 13:05	05/30/09 16:20	
Surrogate(s): 4-BFB (FID)			202%		75 - 140 %	"			"	ZX
BSE0272-10 (Area1-J2-7)		Soil			Sampled: 05/28/09 10:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	11.4	11.1	39.7	mg/kg dry	1x	9E28006	05/28/09 14:00	05/29/09 03:09	J, C8
Surrogate(s): 4-BFB (FID)			128%		75 - 140 %	"			"	
BSE0272-10RE1 (Area1-J2-7)		Soil			Sampled: 05/28/09 10:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	7.04	25.1	mg/kg dry	1x	9E30008	05/30/09 13:05	05/30/09 16:53	
Surrogate(s): 4-BFB (FID)			182%		75 - 140 %	"			"	ZX
BSE0272-11 (Area1-J2-4)		Soil			Sampled: 05/28/09 10:55					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.74	6.20	mg/kg dry	1x	9E28006	05/28/09 14:00	05/29/09 03:42	C
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"			"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 13:14

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-01 (Area1-I1-14)		Soil			Sampled: 05/28/09 08:00					
Lube Oil	NWTPH-Dx	ND	----	31.6	mg/kg dry	1x	9E28030	05/28/09 16:26	05/28/09 20:53	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.9%		54 - 148 %	"				"
<i>Octacosane</i>			91.9%		62 - 142 %	"				"
BSE0272-02 (Area1-I1-9)		Soil			Sampled: 05/28/09 08:15					
Lube Oil	NWTPH-Dx	ND	----	34.5	mg/kg dry	1x	9E28030	05/28/09 16:26	05/28/09 21:15	
Kerosene	"	ND	----	13.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.2%		54 - 148 %	"				"
<i>Octacosane</i>			93.0%		62 - 142 %	"				"
BSE0272-03 (Area1-I2-4)		Soil			Sampled: 05/28/09 09:20					
Lube Oil	NWTPH-Dx	ND	----	28.8	mg/kg dry	1x	9E28030	05/28/09 16:26	05/28/09 21:37	
Kerosene	"	ND	----	11.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			80.7%		54 - 148 %	"				"
<i>Octacosane</i>			93.3%		62 - 142 %	"				"
BSE0272-04 (Area1-I4-9)		Soil			Sampled: 05/28/09 09:35					
Lube Oil	NWTPH-Dx	128	----	70.1	mg/kg dry	1x	9E28030	05/28/09 16:26	05/28/09 22:00	Q1
Kerosene	"	48.7	----	28.0	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	106	----	28.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			87.5%		54 - 148 %	"				"
<i>Octacosane</i>			90.4%		62 - 142 %	"				"
BSE0272-05 (Area1-I4-7)		Soil			Sampled: 05/28/09 09:40					
Lube Oil	NWTPH-Dx	124	----	52.4	mg/kg dry	1x	9E28030	05/28/09 16:26	05/28/09 22:23	Q1
Kerosene	"	ND	----	21.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	46.6	----	21.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			83.9%		54 - 148 %	"				"
<i>Octacosane</i>			87.9%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-06 (Area1-I4-4)		Soil			Sampled: 05/28/09 09:45					
Lube Oil	NWTPH-Dx	ND	----	31.4	mg/kg dry	1x	9E28030	05/28/09 16:26	05/28/09 22:45	
Kerosene	"	ND	----	12.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			87.7%		54 - 148 %	"				"
<i>Octacosane</i>			96.3%		62 - 142 %	"				"
BSE0272-07 (Area1-J1-14)		Soil			Sampled: 05/28/09 10:20					
Lube Oil	NWTPH-Dx	ND	----	32.7	mg/kg dry	1x	9E28030	05/28/09 16:26	05/29/09 02:07	
Kerosene	"	ND	----	13.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.7%		54 - 148 %	"				"
<i>Octacosane</i>			94.1%		62 - 142 %	"				"
BSE0272-08 (Area1-J1-9)		Soil			Sampled: 05/28/09 10:25					
Lube Oil	NWTPH-Dx	ND	----	32.3	mg/kg dry	1x	9E28030	05/28/09 16:26	05/29/09 02:29	
Kerosene	"	ND	----	12.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.3%		54 - 148 %	"				"
<i>Octacosane</i>			92.2%		62 - 142 %	"				"
BSE0272-09 (Area1-J2-9)		Soil			Sampled: 05/28/09 10:45					
Lube Oil	NWTPH-Dx	321	----	113	mg/kg dry	1x	9E28030	05/28/09 16:26	05/29/09 02:52	Q1
Kerosene	"	49.6	----	45.2	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	233	----	45.2	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			85.5%		54 - 148 %	"				"
<i>Octacosane</i>			88.2%		62 - 142 %	"				"
BSE0272-10 (Area1-J2-7)		Soil			Sampled: 05/28/09 10:50					
Lube Oil	NWTPH-Dx	301	----	92.4	mg/kg dry	1x	9E28030	05/28/09 16:26	05/29/09 03:14	Q1
Kerosene	"	ND	----	36.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	157	----	36.9	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			84.7%		54 - 148 %	"				"
<i>Octacosane</i>			89.0%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 13:14

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-11 (Area1-J2-4)		Soil			Sampled: 05/28/09 10:55					
Lube Oil	NWTPH-Dx	ND	----	31.3	mg/kg dry	1x	9E28030	05/28/09 16:26	05/29/09 03:36	
Kerosene	"	ND	----	12.5	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	12.5	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				86.7%		54 - 148 %	"			"
<i>Octacosane</i>				96.3%		62 - 142 %	"			"

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 13:14

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-01	(Area1-I1-14)	Soil		Sampled: 05/28/09 08:00						
Lead	EPA 6020	5.71	----	0.602	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 09:01	
BSE0272-02	(Area1-I1-9)	Soil		Sampled: 05/28/09 08:15						
Lead	EPA 6020	9.91	----	0.671	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 09:07	
BSE0272-03	(Area1-I2-4)	Soil		Sampled: 05/28/09 09:20						
Lead	EPA 6020	1.32	----	0.577	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 09:33	
BSE0272-04	(Area1-I4-9)	Soil		Sampled: 05/28/09 09:35						
Lead	EPA 6020	45.7	----	1.43	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 09:39	
BSE0272-05	(Area1-I4-7)	Soil		Sampled: 05/28/09 09:40						
Lead	EPA 6020	65.9	----	0.970	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 09:45	
BSE0272-06	(Area1-I4-4)	Soil		Sampled: 05/28/09 09:45						
Lead	EPA 6020	2.67	----	0.590	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 09:52	
BSE0272-07	(Area1-J1-14)	Soil		Sampled: 05/28/09 10:20						
Lead	EPA 6020	4.63	----	0.630	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 09:58	
BSE0272-08	(Area1-J1-9)	Soil		Sampled: 05/28/09 10:25						
Lead	EPA 6020	12.6	----	0.613	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 10:04	
BSE0272-09	(Area1-J2-9)	Soil		Sampled: 05/28/09 10:45						
Lead	EPA 6020	136	----	2.24	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 10:11	
BSE0272-10	(Area1-J2-7)	Soil		Sampled: 05/28/09 10:50						
Lead	EPA 6020	156	----	1.87	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 10:17	
BSE0272-11	(Area1-J2-4)	Soil		Sampled: 05/28/09 10:55						
Lead	EPA 6020	2.36	----	0.628	mg/kg dry	1x	9E28036	05/28/09 18:50	05/29/09 10:23	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 13:14

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0272-01 (Area1-I1-14)

Soil

Sampled: 05/28/09 08:00

Benzene	EPA 8260B	0.0508	----	0.00101	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 18:01	
Methyl tert-butyl ether	"	ND	----	0.000675	"	"	"	"	"	"
Naphthalene	"	0.0351	----	0.00675	"	"	"	"	"	"
Toluene	"	0.0143	----	0.00101	"	"	"	"	"	"

Surrogate(s):	1,2-DCA-d4	108%		70 - 140 %	"					"
	Toluene-d8	97.0%		70 - 130 %	"					"
	4-BFB	99.6%		70 - 130 %	"					"

BSE0272-02 (Area1-I1-9)

Soil

Sampled: 05/28/09 08:15

Benzene	EPA 8260B	ND	----	0.00112	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 18:26	
Ethylbenzene	"	ND	----	0.00298	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.000745	"	"	"	"	"	"
Naphthalene	"	ND	----	0.00745	"	"	"	"	"	"
Toluene	"	ND	----	0.00112	"	"	"	"	"	"
o-Xylene	"	ND	----	0.00373	"	"	"	"	"	"
m,p-Xylene	"	0.00399	----	0.00373	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.00745	"	"	"	"	"	"

Surrogate(s):	1,2-DCA-d4	98.0%		70 - 140 %	"					"
	Toluene-d8	95.5%		70 - 130 %	"					"
	4-BFB	96.0%		70 - 130 %	"					"

BSE0272-03 (Area1-I2-4)

Soil

Sampled: 05/28/09 09:20

Benzene	EPA 8260B	ND	----	0.00106	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 18:52	
Ethylbenzene	"	ND	----	0.00282	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.000704	"	"	"	"	"	"
Naphthalene	"	ND	----	0.00704	"	"	"	"	"	"
Toluene	"	ND	----	0.00106	"	"	"	"	"	"
o-Xylene	"	ND	----	0.00352	"	"	"	"	"	"
m,p-Xylene	"	ND	----	0.00352	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.00704	"	"	"	"	"	"

Surrogate(s):	1,2-DCA-d4	100%		70 - 140 %	"					"
	Toluene-d8	96.0%		70 - 130 %	"					"
	4-BFB	94.8%		70 - 130 %	"					"

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-04 (Area1-I4-9)		Soil		Sampled: 05/28/09 09:35						
Benzene	EPA 8260B	0.0259	----	0.00399	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 19:17	
Surrogate(s):	1,2-DCA-d4		107%		70 - 140 %	"				
	Toluene-d8		125%		70 - 130 %	"				
	4-BFB		126%		70 - 130 %	"				I
BSE0272-05 (Area1-I4-7)		Soil		Sampled: 05/28/09 09:40						
Benzene	EPA 8260B	ND	----	0.00224	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 19:43	
Methyl tert-butyl ether	"	0.00199	----	0.00149	"	"	"	"	"	
Naphthalene	"	ND	----	0.0149	"	"	"	"	"	I
Toluene	"	ND	----	0.00224	"	"	"	"	"	I
Surrogate(s):	1,2-DCA-d4		101%		70 - 140 %	"				
	Toluene-d8		115%		70 - 130 %	"				I
	4-BFB		110%		70 - 130 %	"				I
BSE0272-05RE1 (Area1-I4-7)		Soil		Sampled: 05/28/09 09:40						
Ethylbenzene	EPA 8260B	0.00712	----	0.00668	mg/kg dry	1x	9E28029	05/28/09 17:23	05/29/09 00:51	
o-Xylene	"	ND	----	0.00836	"	"	"	"	"	
m,p-Xylene	"	0.0136	----	0.00836	"	"	"	"	"	
Total Xylenes	"	0.0176	----	0.0167	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		101%		70 - 140 %	"				
	Toluene-d8		117%		70 - 130 %	"				
	4-BFB		115%		70 - 130 %	"				I
BSE0272-06 (Area1-I4-4)		Soil		Sampled: 05/28/09 09:45						
Benzene	EPA 8260B	ND	----	0.00101	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 20:09	
Ethylbenzene	"	ND	----	0.00270	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000676	"	"	"	"	"	
Naphthalene	"	ND	----	0.00676	"	"	"	"	"	
Toluene	"	ND	----	0.00101	"	"	"	"	"	
o-Xylene	"	ND	----	0.00338	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00338	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00676	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		94.2%		70 - 140 %	"				
	Toluene-d8		97.0%		70 - 130 %	"				
	4-BFB		95.5%		70 - 130 %	"				

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-07 (Area1-J1-14)		Soil			Sampled: 05/28/09 10:20					
Benzene	EPA 8260B	0.00637	----	0.00108	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 20:35	
<i>Surrogate(s): 1,2-DCA-d4</i>			89.2%		70 - 140 %	"				"
<i>Toluene-d8</i>			101%		70 - 130 %	"				"
<i>4-BFB</i>			103%		70 - 130 %	"				"
BSE0272-08 (Area1-J1-9)		Soil			Sampled: 05/28/09 10:25					
Benzene	EPA 8260B	ND	----	0.00101	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 21:00	
Ethylbenzene	"	0.00326	----	0.00270	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000674	"	"	"	"	"	
Naphthalene	"	ND	----	0.00674	"	"	"	"	"	
Toluene	"	0.00250	----	0.00101	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			101%		70 - 140 %	"				"
<i>Toluene-d8</i>			97.0%		70 - 130 %	"				"
<i>4-BFB</i>			95.6%		70 - 130 %	"				"
BSE0272-08RE1 (Area1-J1-9)		Soil			Sampled: 05/28/09 10:25					
o-Xylene	EPA 8260B	ND	----	0.00318	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 23:34	
m,p-Xylene	"	0.00488	----	0.00318	"	"	"	"	"	
Total Xylenes	"	0.00644	----	0.00636	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			98.4%		70 - 140 %	"				"
<i>Toluene-d8</i>			97.6%		70 - 130 %	"				"
<i>4-BFB</i>			98.0%		70 - 130 %	"				"
BSE0272-09 (Area1-J2-9)		Soil			Sampled: 05/28/09 10:45					
Benzene	EPA 8260B	0.0300	----	0.00581	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 21:26	
Methyl tert-butyl ether	"	ND	----	0.00387	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			99.6%		70 - 140 %	"				"
<i>Toluene-d8</i>			121%		70 - 130 %	"				I
<i>4-BFB</i>			125%		70 - 130 %	"				I

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-10 (Area1-J2-7)		Soil		Sampled: 05/28/09 10:50						
Benzene	EPA 8260B	0.00930	----	0.00470	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 21:51	
Ethylbenzene	"	0.0396	----	0.0125	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.00313	"	"	"	"	"	
Naphthalene	"	ND	----	0.0313	"	"	"	"	"	I
Toluene	"	0.0124	----	0.00470	"	"	"	"	"	
o-Xylene	"	0.0467	----	0.0157	"	"	"	"	"	
m,p-Xylene	"	0.154	----	0.0157	"	"	"	"	"	
Total Xylenes	"	0.201	----	0.0313	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			90.0%		70 - 140 %	"				
<i>Toluene-d8</i>			110%		70 - 130 %	"				
<i>4-BFB</i>			109%		70 - 130 %	"				I

BSE0272-11 (Area1-J2-4)		Soil		Sampled: 05/28/09 10:55							P13
Benzene	EPA 8260B	ND	----	0.000912	mg/kg dry	1x	9E28029	05/28/09 17:23	05/28/09 22:17		
Ethylbenzene	"	ND	----	0.00243	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000608	"	"	"	"	"		
Naphthalene	"	ND	----	0.00608	"	"	"	"	"		
Toluene	"	ND	----	0.000912	"	"	"	"	"		
o-Xylene	"	ND	----	0.00304	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00304	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00608	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			91.9%		70 - 140 %	"					
<i>Toluene-d8</i>			99.9%		70 - 130 %	"					
<i>4-BFB</i>			105%		70 - 130 %	"					

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-01 (Area1-I1-14)		Soil			Sampled: 05/28/09 08:00					
Ethylbenzene	EPA 8260B	0.0379	0.0142	0.118	mg/kg dry	1x	9E28017	05/28/09 14:08	05/28/09 20:13	J
o-Xylene	"	0.0367	0.0201	0.118	"	"	"	"	"	J
m,p-Xylene	"	0.108	0.0249	0.237	"	"	"	"	"	J
Xylenes (total)	"	0.145	0.0367	0.355	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			94.5%		75 - 125 %	"			"	
<i>Toluene-d8</i>			98.4%		75 - 125 %	"			"	
<i>4-BFB</i>			100%		75 - 125 %	"			"	
BSE0272-04 (Area1-I4-9)		Soil			Sampled: 05/28/09 09:35					
Ethylbenzene	EPA 8260B	0.777	0.0552	0.460	mg/kg dry	1x	9E28017	05/28/09 14:08	05/28/09 21:33	
Methyl tert-butyl ether	"	ND	0.0460	0.230	"	"	"	"	"	
Naphthalene	"	ND	5.06	9.19	"	"	"	"	"	
Toluene	"	0.0552	0.0460	0.460	"	"	"	"	"	J
o-Xylene	"	0.391	0.0782	0.460	"	"	"	"	"	J
m,p-Xylene	"	1.55	0.0965	0.919	"	"	"	"	"	
Xylenes (total)	"	1.94	0.143	1.38	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			96.2%		75 - 125 %	"			"	
<i>Toluene-d8</i>			98.2%		75 - 125 %	"			"	
<i>4-BFB</i>			98.2%		75 - 125 %	"			"	
BSE0272-07 (Area1-J1-14)		Soil			Sampled: 05/28/09 10:20					
Ethylbenzene	EPA 8260B	2.66	0.0131	0.109	mg/kg dry	1x	9E28017	05/28/09 14:08	05/28/09 22:53	
Methyl tert-butyl ether	"	ND	0.0109	0.0544	"	"	"	"	"	
Naphthalene	"	1.50	1.20	2.18	"	"	"	"	"	J
Toluene	"	0.921	0.0109	0.109	"	"	"	"	"	
o-Xylene	"	4.71	0.0185	0.109	"	"	"	"	"	
m,p-Xylene	"	14.9	0.0229	0.218	"	"	"	"	"	
Xylenes (total)	"	19.6	0.0338	0.327	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			97.5%		75 - 125 %	"			"	
<i>Toluene-d8</i>			97.7%		75 - 125 %	"			"	
<i>4-BFB</i>			108%		75 - 125 %	"			"	

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-09 (Area1-J2-9)		Soil			Sampled: 05/28/09 10:45					
Ethylbenzene	EPA 8260B	0.187	0.118	0.984	mg/kg dry	1x	9E29010	05/29/09 13:17	05/29/09 15:07	J
Naphthalene	"	ND	10.8	19.7	"	"	"	"	"	J
Toluene	"	0.187	0.0984	0.984	"	"	"	"	"	J
o-Xylene	"	0.177	0.167	0.984	"	"	"	"	"	J
m,p-Xylene	"	0.531	0.207	1.97	"	"	"	"	"	J
Xylenes (total)	"	0.708	0.305	2.95	"	"	"	"	"	J
Surrogate(s):	1,2-DCA-d4		103%		75 - 125 %	"			"	
	Toluene-d8		102%		75 - 125 %	"			"	
	4-BFB		101%		75 - 125 %	"			"	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-01 (Area1-I1-14)		Soil								Sampled: 05/28/09 08:00
Dry Weight	BSOPSP003R0 8	79.0	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-02 (Area1-I1-9)		Soil								Sampled: 05/28/09 08:15
Dry Weight	BSOPSP003R0 8	72.4	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-03 (Area1-I2-4)		Soil								Sampled: 05/28/09 09:20
Dry Weight	BSOPSP003R0 8	85.8	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-04 (Area1-I4-9)		Soil								Sampled: 05/28/09 09:35
Dry Weight	BSOPSP003R0 8	35.4	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-05 (Area1-I4-7)		Soil								Sampled: 05/28/09 09:40
Dry Weight	BSOPSP003R0 8	47.7	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-06 (Area1-I4-4)		Soil								Sampled: 05/28/09 09:45
Dry Weight	BSOPSP003R0 8	78.4	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-07 (Area1-J1-14)		Soil								Sampled: 05/28/09 10:20
Dry Weight	BSOPSP003R0 8	75.6	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-08 (Area1-J1-9)		Soil								Sampled: 05/28/09 10:25
Dry Weight	BSOPSP003R0 8	76.2	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-09 (Area1-J2-9)		Soil								Sampled: 05/28/09 10:45
Dry Weight	BSOPSP003R0 8	21.9	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-10 (Area1-J2-7)		Soil								Sampled: 05/28/09 10:50
Dry Weight	BSOPSP003R0 8	27.0	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	
BSE0272-11 (Area1-J2-4)		Soil								Sampled: 05/28/09 10:55

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	Project Number:	33759381	06/01/09 13:14
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0272-11	(Area1-J2-4)									
		Soil			Sampled: 05/28/09 10:55					
Dry Weight	BSOPSPL003R0 8	78.8	----	1.00	%	1x	9E28027	05/28/09 14:58	05/29/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E28006 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes					
Blank (9E28006-BLK1)										Extracted: 05/28/09 09:49									
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/28/09 13:16						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 84.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/28/09 13:16</i>					
LCS (9E28006-BS1)										Extracted: 05/28/09 09:49									
Gasoline Range Hydrocarbons	NWTPH-Gx	54.4	1.40	5.00	mg/kg wet	1x	--	50.0	109%	(80-120)	--	--	05/28/09 13:54						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/28/09 13:54</i>					
LCS Dup (9E28006-BSD1)										Extracted: 05/28/09 09:49									
Gasoline Range Hydrocarbons	NWTPH-Gx	53.7	1.40	5.00	mg/kg wet	1x	--	50.0	107%	(80-120)	1.28%	(20)	05/28/09 14:27						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/28/09 14:27</i>					
Duplicate (9E28006-DUP1)										QC Source: BSE0259-21					Extracted: 05/28/09 09:49				
Gasoline Range Hydrocarbons	NWTPH-Gx	1.09	1.09	3.91	mg/kg dry	1x	1.29	--	--	--	--	(40)	05/28/09 22:11	J					
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 139%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/28/09 22:11</i>					
Duplicate (9E28006-DUP2)										QC Source: BSE0259-22					Extracted: 05/28/09 09:49				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.47	5.27	mg/kg dry	1x	ND	--	--	--	NR	(40)	05/28/09 22:44						
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 135%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/28/09 22:44</i>					
Matrix Spike (9E28006-MS1)										QC Source: BSE0259-24					Extracted: 05/28/09 09:49				
Gasoline Range Hydrocarbons	NWTPH-Gx	182	4.86	17.3	mg/kg dry	1x	ND	64.5	281%	(75-130)	--	--	05/28/09 23:17	M1					
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 248%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>05/28/09 23:17</i>	ZX				

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9E28009 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E28009-BLK1)										Extracted: 05/28/09 09:53				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/28/09 13:39	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 83.0%</i>	<i>Limits: 75-140%</i>		<i>"</i>		<i>05/28/09 13:39</i>							
LCS (9E28009-BS1)										Extracted: 05/28/09 09:53				
Gasoline Range Hydrocarbons	NWTPH-Gx	55.8	1.40	5.00	mg/kg wet	1x	--	50.0	112%	(80-120)	--	--	05/28/09 14:11	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.3%</i>	<i>Limits: 75-140%</i>		<i>"</i>		<i>05/28/09 14:11</i>							
Duplicate (9E28009-DUP1)										QC Source: BSE0258-01		Extracted: 05/28/09 09:53		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	3.50	12.5	mg/kg dry	1x	ND	--	--	--	NR (40)		05/28/09 15:49	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.9%</i>	<i>Limits: 75-140%</i>		<i>"</i>		<i>05/28/09 15:49</i>							
Duplicate (9E28009-DUP2)										QC Source: BSE0258-02		Extracted: 05/28/09 09:53		
Gasoline Range Hydrocarbons	NWTPH-Gx	496	3.13	11.2	mg/kg dry	1x	483	--	--	--	2.55% (40)		05/28/09 16:54	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 261%</i>	<i>Limits: 75-140%</i>		<i>"</i>		<i>05/28/09 16:54</i>							
Matrix Spike (9E28009-MS1)										QC Source: BSE0258-01		Extracted: 05/28/09 09:53		
Gasoline Range Hydrocarbons	NWTPH-Gx	158	3.50	12.5	mg/kg dry	1x	ND	110	144%	(75-130)	--	--	05/28/09 17:59	MI
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 113%</i>	<i>Limits: 75-140%</i>		<i>"</i>		<i>05/28/09 17:59</i>							

QC Batch: 9E30008 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E30008-BLK1)										Extracted: 05/30/09 13:05				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/30/09 14:37	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 83.1%</i>	<i>Limits: 75-140%</i>		<i>"</i>		<i>05/30/09 14:37</i>							
LCS (9E30008-BS1)										Extracted: 05/30/09 13:05				
Gasoline Range Hydrocarbons	NWTPH-Gx	53.6	1.40	5.00	mg/kg wet	1x	--	50.0	107%	(80-120)	--	--	05/30/09 15:10	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.4%</i>	<i>Limits: 75-140%</i>		<i>"</i>		<i>05/30/09 15:10</i>							
Duplicate (9E30008-DUP1)										QC Source: BSE0282-02		Extracted: 05/30/09 13:05		
Gasoline Range Hydrocarbons	NWTPH-Gx	11.5	1.60	5.70	mg/kg dry	1x	10.9	--	--	--	5.58% (40)		05/30/09 22:18	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 91.6%</i>	<i>Limits: 75-140%</i>		<i>"</i>		<i>05/30/09 22:18</i>							
Duplicate (9E30008-DUP2)										QC Source: BSE0282-03		Extracted: 05/30/09 13:05		
Gasoline Range Hydrocarbons	NWTPH-Gx	4.28	1.60	5.71	mg/kg dry	1x	4.32	--	--	--	0.778% (40)		05/30/09 23:23	J
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 88.3%</i>	<i>Limits: 75-140%</i>		<i>"</i>		<i>05/30/09 23:23</i>							

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E30008 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Matrix Spike (9E30008-MS1)			QC Source: BSE0282-01					Extracted: 05/30/09 13:05							
Gasoline Range Hydrocarbons	NWTPH-Gx	53.6	1.30	4.65	mg/kg dry	1x	2.14	43.8	117%	(75-130)	--	--	05/30/09 17:58		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>		<i>Limits: 75-140%</i>					<i>05/30/09 17:58</i>						
Matrix Spike Dup (9E30008-MSD1)			QC Source: BSE0282-01					Extracted: 05/30/09 13:05							
Gasoline Range Hydrocarbons	NWTPH-Gx	49.8	1.30	4.65	mg/kg dry	1x	2.14	43.8	109%	(75-130)	7.29%	(25)	05/30/09 18:30		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>		<i>Limits: 75-140%</i>					<i>05/30/09 18:30</i>						

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E28030 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E28030-BLK1)

Extracted: 05/28/09 16:26

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/29/09 00:15	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>74.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/29/09 00:15</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>99.5%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9E28030-BS1)

Extracted: 05/28/09 16:26

Lube Oil	NWTPH-Dx	74.3	---	25.0	mg/kg wet	1x	--	66.7	111%	(63-125)	--	--	05/29/09 00:37	
Diesel Range Hydrocarbons	"	75.9	---	10.0	"	"	--	"	114%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/29/09 00:37</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>88.7%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E28030-DUP1)

QC Source: BSE0272-02

Extracted: 05/28/09 16:26

Lube Oil	NWTPH-Dx	ND	---	34.3	mg/kg dry	1x	ND	--	--	--	48.5% (50)		05/29/09 01:00	R4
Kerosene	"	ND	---	13.7	"	"	ND	--	--	--	"		"	
Diesel Range Hydrocarbons	"	ND	---	13.7	"	"	ND	--	--	--	"		"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/29/09 01:00</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>91.7%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9E28030-DUP2)

QC Source: BSE0272-06

Extracted: 05/28/09 16:26

Lube Oil	NWTPH-Dx	ND	---	31.9	mg/kg dry	1x	ND	--	--	--	17.6% (50)		05/29/09 01:22	R4
Kerosene	"	ND	---	12.8	"	"	ND	--	--	--	"		"	
Diesel Range Hydrocarbons	"	ND	---	12.8	"	"	ND	--	--	--	"		"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/29/09 01:22</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>92.3%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9E28030-MS1)

QC Source: BSE0272-02

Extracted: 05/28/09 16:26

Lube Oil	NWTPH-Dx	104	---	34.4	mg/kg dry	1x	5.33	91.8	108%	(26-150)	--	--	05/29/09 01:45	
Diesel Range Hydrocarbons	"	99.6	---	13.8	"	"	ND	"	108%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>88.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/29/09 01:45</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>92.1%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E28036 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E28036-BLK1)								Extracted: 05/28/09 18:50						
Lead	EPA 6020	ND	---	0.521	mg/kg wet	1x	--	--	--	--	--	--	05/29/09 08:30	
LCS (9E28036-BS1)								Extracted: 05/28/09 18:50						
Lead	EPA 6020	41.9	---	0.510	mg/kg wet	1x	--	40.8	103%	(80-120)	--	--	05/29/09 08:36	
Duplicate (9E28036-DUP1)				QC Source: BSE0272-01				Extracted: 05/28/09 18:50						
Lead	EPA 6020	3.87	---	0.614	mg/kg dry	1x	5.71	--	--	--	38.5% (20)	--	05/29/09 08:55	R4
Matrix Spike (9E28036-MS1)				QC Source: BSE0272-01				Extracted: 05/28/09 18:50						
Lead	EPA 6020	51.9	---	0.602	mg/kg dry	1x	5.71	48.2	95.8%	(75-125)	--	--	05/29/09 08:49	
Post Spike (9E28036-PS1)				QC Source: BSE0272-01				Extracted: 05/28/09 18:50						
Lead	EPA 6020	0.118	---		ug/ml	1x	0.00948	0.100	108%	(80-120)	--	--	05/29/09 08:42	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E28029 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E28029-BLK1)													Extracted: 05/28/09 16:23	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/28/09 17:35	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>115%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/28/09 17:35</i>	
<i>Toluene-d8</i>		<i>91.0%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>97.1%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9E28029-BS1)													Extracted: 05/28/09 16:23	
Benzene	EPA 8260B	0.0541	---	0.00150	mg/kg wet	1x	--	0.0500	108%	(70-125)	--	--	05/28/09 16:43	
Ethylbenzene	"	0.0468	---	0.00400	"	"	--	"	93.5%	"	--	--	"	
Methyl tert-butyl ether	"	0.0503	---	0.00100	"	"	--	"	101%	(70-130)	--	--	"	
Naphthalene	"	0.0548	---	0.0100	"	"	--	"	110%	"	--	--	"	
Toluene	"	0.0476	---	0.00150	"	"	--	"	95.2%	(70-125)	--	--	"	
Total Xylenes	"	0.141	---	0.0100	"	"	--	0.150	93.8%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>96.4%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/28/09 16:43</i>	
<i>Toluene-d8</i>		<i>99.2%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>93.4%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9E28029-BSD1)													Extracted: 05/28/09 16:23	
Benzene	EPA 8260B	0.0512	---	0.00150	mg/kg wet	1x	--	0.0500	102%	(70-125)	5.36% (30)		05/28/09 17:09	
Ethylbenzene	"	0.0465	---	0.00400	"	"	--	"	93.0%	"	0.622%	"	"	
Methyl tert-butyl ether	"	0.0430	---	0.00100	"	"	--	"	86.0%	(70-130)	15.6%	"	"	
Naphthalene	"	0.0465	---	0.0100	"	"	--	"	93.0%	"	16.4%	"	"	
Toluene	"	0.0463	---	0.00150	"	"	--	"	92.7%	(70-125)	2.68%	"	"	
Total Xylenes	"	0.138	---	0.0100	"	"	--	0.150	91.8%	(70-130)	2.13%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>87.7%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>05/28/09 17:09</i>	
<i>Toluene-d8</i>		<i>96.2%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E28017 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E28017-BLK1)													Extracted: 05/28/09 12:08	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	05/28/09 14:26	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 96.1% Limits: 75-125% "</i>														
<i>Toluene-d8 101% 75-125% "</i>														
<i>4-BFB 93.6% 75-125% "</i>														

LCS (9E28017-BS1)													Extracted: 05/28/09 12:08	
Benzene	EPA 8260B	4.08	0.0100	0.0200	mg/kg wet	1x	--	4.00	102%	(75-125)	--	--	05/28/09 12:59	
Ethylbenzene	"	4.20	0.0120	0.100	"	"	--	"	105%	"	--	--	"	
Methyl tert-butyl ether	"	4.26	0.0100	0.0500	"	"	--	"	107%	"	--	--	"	
Naphthalene	"	3.98	1.10	2.00	"	"	--	"	99.5%	(60-140)	--	--	"	
Toluene	"	3.96	0.0100	0.100	"	"	--	"	99.0%	(75-125)	--	--	"	
o-Xylene	"	4.22	0.0170	0.100	"	"	--	"	106%	"	--	--	"	
m,p-Xylene	"	8.25	0.0210	0.200	"	"	--	8.00	103%	"	--	--	"	
Xylenes (total)	"	12.5	0.0310	0.300	"	"	--	12.0	104%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 93.0% Limits: 75-125% "</i>														
<i>Toluene-d8 98.0% 75-125% "</i>														
<i>4-BFB 101% 75-125% "</i>														

LCS Dup (9E28017-BSD1)													Extracted: 05/28/09 12:08	
Benzene	EPA 8260B	3.96	0.0100	0.0200	mg/kg wet	1x	--	4.00	98.9%	(75-125)	2.99% (20)		05/28/09 13:25	
Ethylbenzene	"	4.13	0.0120	0.100	"	"	--	"	103%	"	1.85%	"	"	
Methyl tert-butyl ether	"	4.29	0.0100	0.0500	"	"	--	"	107%	"	0.748%	"	"	
Naphthalene	"	4.30	1.10	2.00	"	"	--	"	108%	(60-140)	7.78%	"	"	
Toluene	"	3.91	0.0100	0.100	"	"	--	"	97.7%	(75-125)	1.35%	"	"	
o-Xylene	"	4.04	0.0170	0.100	"	"	--	"	101%	"	4.43%	"	"	
m,p-Xylene	"	7.80	0.0210	0.200	"	"	--	8.00	97.6%	"	5.60%	"	"	
Xylenes (total)	"	11.8	0.0310	0.300	"	"	--	12.0	98.7%	"	5.21%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.2% Limits: 75-125% "</i>														
<i>Toluene-d8 99.4% 75-125% "</i>														
<i>4-BFB 102% 75-125% "</i>														

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E29010 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E29010-BLK1)													Extracted: 05/29/09 12:17	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	05/29/09 14:41	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 99.8% Limits: 75-125% "</i>														
<i>Toluene-d8 102% 75-125% "</i>														
<i>4-BFB 98.4% 75-125% "</i>														

LCS (9E29010-BS1)													Extracted: 05/29/09 12:17	
Benzene	EPA 8260B	4.02	0.0100	0.0200	mg/kg wet	1x	--	4.00	101%	(75-125)	--	--	05/29/09 13:13	
Ethylbenzene	"	4.15	0.0120	0.100	"	"	--	"	104%	"	--	--	"	
Methyl tert-butyl ether	"	4.35	0.0100	0.0500	"	"	--	"	109%	"	--	--	"	
Naphthalene	"	4.30	1.10	2.00	"	"	--	"	107%	(60-140)	--	--	"	
Toluene	"	3.96	0.0100	0.100	"	"	--	"	98.9%	(75-125)	--	--	"	
o-Xylene	"	4.07	0.0170	0.100	"	"	--	"	102%	"	--	--	"	
m,p-Xylene	"	7.96	0.0210	0.200	"	"	--	8.00	99.4%	"	--	--	"	
Xylenes (total)	"	12.0	0.0310	0.300	"	"	--	12.0	100%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 96.8% Limits: 75-125% "</i>														
<i>Toluene-d8 97.7% 75-125% "</i>														
<i>4-BFB 104% 75-125% "</i>														

LCS Dup (9E29010-BSD1)													Extracted: 05/29/09 12:17	
Benzene	EPA 8260B	4.02	0.0100	0.0200	mg/kg wet	1x	--	4.00	101%	(75-125)	0.0249% (20)		05/29/09 13:40	
Ethylbenzene	"	4.17	0.0120	0.100	"	"	--	"	104%	"	0.409%	"	"	
Methyl tert-butyl ether	"	4.34	0.0100	0.0500	"	"	--	"	109%	"	0.0921%	"	"	
Naphthalene	"	4.35	1.10	2.00	"	"	--	"	109%	(60-140)	1.13%	"	"	
Toluene	"	3.93	0.0100	0.100	"	"	--	"	98.2%	(75-125)	0.710%	"	"	
o-Xylene	"	4.06	0.0170	0.100	"	"	--	"	102%	"	0.123%	"	"	
m,p-Xylene	"	7.84	0.0210	0.200	"	"	--	8.00	98.0%	"	1.44%	"	"	
Xylenes (total)	"	11.9	0.0310	0.300	"	"	--	12.0	99.2%	"	0.995%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 96.9% Limits: 75-125% "</i>														
<i>Toluene-d8 98.2% 75-125% "</i>														
<i>4-BFB 104% 75-125% "</i>														

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 13:14
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E28027 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E28027-BLK1)										Extracted: 05/28/09 14:58				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	05/29/09 00:00	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 13:14

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 13:14

Notes and Definitions

Report Specific Notes:

- C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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TAT: _____
Page Time & Initials: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?
Circle Y or N
(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
(applies to temp at receipt)
Date: 5/28/09 Date: 5/28/09 Date: 5/28 Date: _____ Work Order No. BSE0272
Time: 1540 Time: 1556 Time: 1615 Time: _____ Client: _____
Initials: FL Initials: FL Initials: TP Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
_____ Box _____ On Bottles _____ Date _____ Foam Packs
_____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
_____ Loose Ice _____ Y or N or NA _____ UPS TA Courier
_____ None/Other _____ Initial/date/time To Keith _____ DHL _____ Mid Valley
_____ Senvoy _____ TDP
_____ GS _____ Other _____

Cooler Temperature (IR): 5.4 °C Plastic Glass (circle one) (Frozen filters, Tedlars and aqueous Metals exempt)
Temperature Blank? _____ °C or NA comments Frozen Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
(initial/date/time): _____
Comments: _____

Sample Containers: _____ ID _____ ID _____
Intact? Y or N _____ Metals Preserved? Y or N or NA
Provided by TA? Y or N _____ Client QAPP Preserved? Y or N or NA
Correct Type? Y or N _____ Adequate Volume? Y or N _____
(for tests requested)
#Containers match COC? Y or N _____ Water VOAs: Headspace? Y or N or NA
IDs/time/date match COC? Y or N _____ Comments: _____
Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

June 01, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 05/29/09 16:30.
The following list is a summary of the Work Orders contained in this report, generated on 06/01/09
16:05.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSE0281	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA2-J3-14	BSE0281-01	Soil	05/29/09 08:15	05/29/09 16:30
AREA2-J4-14	BSE0281-02	Soil	05/29/09 09:00	05/29/09 16:30
AREA2-I3-14	BSE0281-03	Soil	05/29/09 09:10	05/29/09 16:30
AREA2-I4-14	BSE0281-04	Soil	05/29/09 09:20	05/29/09 16:30
AREA2-H3-14	BSE0281-05	Soil	05/29/09 09:30	05/29/09 16:30
AREA2-H4-14	BSE0281-06	Soil	05/29/09 09:40	05/29/09 16:30
AREA2-G3-14	BSE0281-07	Soil	05/29/09 10:00	05/29/09 16:30
AREA2-G4-14	BSE0281-08	Soil	05/29/09 10:10	05/29/09 16:30
AREA2-F3-14	BSE0281-09	Soil	05/29/09 10:30	05/29/09 16:30
DUP-15	BSE0281-10	Soil	05/29/09 12:00	05/29/09 16:30

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 16:05
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-01 (AREA2-J3-14)		Soil			Sampled: 05/29/09 08:15					
Gasoline Range Hydrocarbons	NWTPH-Gx	2.68	1.80	6.43	mg/kg dry	1x	9E30008	05/30/09 13:05	05/30/09 23:56	J
Surrogate(s): 4-BFB (FID)			104%		75 - 140 %	"			"	
BSE0281-02 (AREA2-J4-14)		Soil			Sampled: 05/29/09 09:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	26.2	2.86	10.2	mg/kg dry	1x	9E30008	05/30/09 13:05	05/31/09 00:28	
Surrogate(s): 4-BFB (FID)			122%		75 - 140 %	"			"	
BSE0281-03 (AREA2-I3-14)		Soil			Sampled: 05/29/09 09:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	7.42	1.42	5.09	mg/kg dry	1x	9E30008	05/30/09 13:05	05/31/09 01:01	
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"			"	
BSE0281-04 (AREA2-I4-14)		Soil			Sampled: 05/29/09 09:20					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.49	5.33	mg/kg dry	1x	9E30008	05/30/09 13:05	05/31/09 01:33	
Surrogate(s): 4-BFB (FID)			99.0%		75 - 140 %	"			"	
BSE0281-05 (AREA2-H3-14)		Soil			Sampled: 05/29/09 09:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.72	6.15	mg/kg dry	1x	9E30008	05/30/09 13:05	05/31/09 02:06	
Surrogate(s): 4-BFB (FID)			103%		75 - 140 %	"			"	
BSE0281-06 (AREA2-H4-14)		Soil			Sampled: 05/29/09 09:40					
Gasoline Range Hydrocarbons	NWTPH-Gx	239	1.62	5.78	mg/kg dry	1x	9E30008	05/30/09 13:05	05/31/09 02:38	
Surrogate(s): 4-BFB (FID)			252%		75 - 140 %	"			"	ZX
BSE0281-07 (AREA2-G3-14)		Soil			Sampled: 05/29/09 10:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	2.67	1.68	6.01	mg/kg dry	1x	9E30008	05/30/09 13:05	05/31/09 04:48	J
Surrogate(s): 4-BFB (FID)			105%		75 - 140 %	"			"	
BSE0281-08 (AREA2-G4-14)		Soil			Sampled: 05/29/09 10:10					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.92	6.85	mg/kg dry	1x	9E30008	05/30/09 13:05	05/31/09 05:20	
Surrogate(s): 4-BFB (FID)			105%		75 - 140 %	"			"	

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Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-09RE1 (AREA2-F3-14)		Soil			Sampled: 05/29/09 10:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	449	9.77	34.9	mg/kg dry	5x	9F01010	06/01/09 08:16	06/01/09 09:51	
<i>Surrogate(s): 4-BFB (FID)</i>			126%		75 - 140 %	1x				"
BSE0281-10RE1 (DUP-15)		Soil			Sampled: 05/29/09 12:00					
Gasoline Range Hydrocarbons	NWTPH-Gx	613	19.0	67.9	mg/kg dry	10x	9F01010	06/01/09 08:16	06/01/09 10:24	
<i>Surrogate(s): 4-BFB (FID)</i>			122%		75 - 140 %	1x				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-01 (AREA2-J3-14)		Soil			Sampled: 05/29/09 08:15					
Lube Oil	NWTPH-Dx	ND	----	31.1	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 14:34	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.6%		54 - 148 %	"				"
<i>Octacosane</i>			94.8%		62 - 142 %	"				"
BSE0281-02 (AREA2-J4-14)		Soil			Sampled: 05/29/09 09:00					
Lube Oil	NWTPH-Dx	84.6	----	38.9	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 14:57	
Kerosene	"	ND	----	15.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	23.3	----	15.6	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			86.2%		54 - 148 %	"				"
<i>Octacosane</i>			89.9%		62 - 142 %	"				"
BSE0281-03 (AREA2-I3-14)		Soil			Sampled: 05/29/09 09:10					
Lube Oil	NWTPH-Dx	ND	----	30.8	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 15:19	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			78.6%		54 - 148 %	"				"
<i>Octacosane</i>			94.2%		62 - 142 %	"				"
BSE0281-04 (AREA2-I4-14)		Soil			Sampled: 05/29/09 09:20					
Lube Oil	NWTPH-Dx	ND	----	28.9	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 15:41	
Kerosene	"	ND	----	11.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.2%		54 - 148 %	"				"
<i>Octacosane</i>			96.7%		62 - 142 %	"				"
BSE0281-05 (AREA2-H3-14)		Soil			Sampled: 05/29/09 09:30					
Lube Oil	NWTPH-Dx	ND	----	30.6	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 16:03	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			80.1%		54 - 148 %	"				"
<i>Octacosane</i>			93.5%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 16:05
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-06 (AREA2-H4-14)		Soil			Sampled: 05/29/09 09:40					
Lube Oil	NWTPH-Dx	ND	----	30.1	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 17:56	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			82.0%		54 - 148 %	"				"
<i>Octacosane</i>			92.8%		62 - 142 %	"				"
BSE0281-07 (AREA2-G3-14)		Soil			Sampled: 05/29/09 10:00					
Lube Oil	NWTPH-Dx	ND	----	30.2	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 18:18	
Kerosene	"	ND	----	12.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.9%		54 - 148 %	"				"
<i>Octacosane</i>			98.7%		62 - 142 %	"				"
BSE0281-08 (AREA2-G4-14)		Soil			Sampled: 05/29/09 10:10					
Lube Oil	NWTPH-Dx	ND	----	31.6	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 18:40	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			80.8%		54 - 148 %	"				"
<i>Octacosane</i>			94.3%		62 - 142 %	"				"
BSE0281-09 (AREA2-F3-14)		Soil			Sampled: 05/29/09 10:30					
Lube Oil	NWTPH-Dx	ND	----	31.2	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 19:03	
Kerosene	"	33.5	----	12.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.4%		54 - 148 %	"				"
<i>Octacosane</i>			95.3%		62 - 142 %	"				"
BSE0281-10 (DUP-15)		Soil			Sampled: 05/29/09 12:00					
Lube Oil	NWTPH-Dx	ND	----	31.4	mg/kg dry	1x	9E29017	05/29/09 17:26	05/30/09 19:25	
Kerosene	"	74.3	----	12.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	21.7	----	12.6	"	"	"	"	"	Q5
<i>Surrogate(s): 2-FBP</i>			85.2%		54 - 148 %	"				"
<i>Octacosane</i>			100%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-01 (AREA2-J3-14)		Soil								Sampled: 05/29/09 08:15
Lead	EPA 6020	36.4	----	0.622	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 10:17	
BSE0281-02 (AREA2-J4-14)		Soil								Sampled: 05/29/09 09:00
Lead	EPA 6020	97.9	----	0.778	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 10:23	
BSE0281-03 (AREA2-I3-14)		Soil								Sampled: 05/29/09 09:10
Lead	EPA 6020	164	----	0.627	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 10:29	
BSE0281-04 (AREA2-I4-14)		Soil								Sampled: 05/29/09 09:20
Lead	EPA 6020	19.2	----	0.556	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 10:55	
BSE0281-05 (AREA2-H3-14)		Soil								Sampled: 05/29/09 09:30
Lead	EPA 6020	81.8	----	0.612	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 11:01	
BSE0281-06 (AREA2-H4-14)		Soil								Sampled: 05/29/09 09:40
Lead	EPA 6020	46.7	----	0.574	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 11:07	
BSE0281-07 (AREA2-G3-14)		Soil								Sampled: 05/29/09 10:00
Lead	EPA 6020	29.8	----	0.601	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 11:13	
BSE0281-08 (AREA2-G4-14)		Soil								Sampled: 05/29/09 10:10
Lead	EPA 6020	10.2	----	0.650	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 11:20	
BSE0281-09 (AREA2-F3-14)		Soil								Sampled: 05/29/09 10:30
Lead	EPA 6020	20.8	----	0.615	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 11:26	
BSE0281-10 (DUP-15)		Soil								Sampled: 05/29/09 12:00
Lead	EPA 6020	19.6	----	0.624	mg/kg dry	1x	9E29025	05/29/09 19:06	06/01/09 11:32	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-01 (AREA2-J3-14)		Soil					Sampled: 05/29/09 08:15			P13
Benzene	EPA 8260B	ND	----	0.000893	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 18:13	
Ethylbenzene	"	ND	----	0.00238	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000596	"	"	"	"	"	
Naphthalene	"	ND	----	0.00596	"	"	"	"	"	
Toluene	"	ND	----	0.000893	"	"	"	"	"	
o-Xylene	"	ND	----	0.00298	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00298	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00596	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				96.1%		70 - 140 %	"			"
<i>Toluene-d8</i>				93.5%		70 - 130 %	"			"
<i>4-BFB</i>				99.8%		70 - 130 %	"			"
BSE0281-02 (AREA2-J4-14)		Soil					Sampled: 05/29/09 09:00			
Benzene	EPA 8260B	ND	----	0.00117	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 18:39	
Ethylbenzene	"	ND	----	0.00313	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000783	"	"	"	"	"	
Naphthalene	"	ND	----	0.00783	"	"	"	"	"	
Toluene	"	0.00139	----	0.00117	"	"	"	"	"	
o-Xylene	"	ND	----	0.00392	"	"	"	"	"	
m,p-Xylene	"	0.00495	----	0.00392	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00783	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				104%		70 - 140 %	"			"
<i>Toluene-d8</i>				105%		70 - 130 %	"			"
<i>4-BFB</i>				110%		70 - 130 %	"			"
BSE0281-03 (AREA2-I3-14)		Soil					Sampled: 05/29/09 09:10			P13
Benzene	EPA 8260B	ND	----	0.000643	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 19:04	
Ethylbenzene	"	ND	----	0.00172	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000429	"	"	"	"	"	
Naphthalene	"	ND	----	0.00429	"	"	"	"	"	
Toluene	"	ND	----	0.000643	"	"	"	"	"	
o-Xylene	"	ND	----	0.00214	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00214	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00429	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				97.7%		70 - 140 %	"			"
<i>Toluene-d8</i>				93.7%		70 - 130 %	"			"
<i>4-BFB</i>				97.4%		70 - 130 %	"			"

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSE0281-04 (AREA2-I4-14)

Soil

Sampled: 05/29/09 09:20

Benzene	EPA 8260B	ND	----	0.000953	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 19:30	
Ethylbenzene	"	ND	----	0.00254	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000636	"	"	"	"	"	
Naphthalene	"	ND	----	0.00636	"	"	"	"	"	
Toluene	"	ND	----	0.000953	"	"	"	"	"	
o-Xylene	"	ND	----	0.00318	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00318	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00636	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	94.7%		70 - 140 %	"					
	Toluene-d8	99.3%		70 - 130 %	"					
	4-BFB	103%		70 - 130 %	"					

BSE0281-05 (AREA2-H3-14)

Soil

Sampled: 05/29/09 09:30

Benzene	EPA 8260B	ND	----	0.000961	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 19:56	
Ethylbenzene	"	ND	----	0.00256	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000640	"	"	"	"	"	
Naphthalene	"	ND	----	0.00640	"	"	"	"	"	
Toluene	"	ND	----	0.000961	"	"	"	"	"	
o-Xylene	"	ND	----	0.00320	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00320	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00640	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	98.3%		70 - 140 %	"					
	Toluene-d8	93.0%		70 - 130 %	"					
	4-BFB	95.2%		70 - 130 %	"					

BSE0281-06 (AREA2-H4-14)

Soil

Sampled: 05/29/09 09:40

Benzene	EPA 8260B	0.0174	----	0.000981	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 20:22	
Methyl tert-butyl ether	"	ND	----	0.000654	"	"	"	"	"	
Naphthalene	"	0.0440	----	0.00654	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	102%		70 - 140 %	"					
	Toluene-d8	96.5%		70 - 130 %	"					
	4-BFB	104%		70 - 130 %	"					

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-07 (AREA2-G3-14)		Soil		Sampled: 05/29/09 10:00						P13
Benzene	EPA 8260B	0.0368	----	0.000770	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 20:48	
Ethylbenzene	"	0.00259	----	0.00205	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000513	"	"	"	"	"	
Naphthalene	"	ND	----	0.00513	"	"	"	"	"	
Toluene	"	ND	----	0.000770	"	"	"	"	"	
o-Xylene	"	ND	----	0.00257	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00257	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00513	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				97.1%		70 - 140 %	"			"
<i>Toluene-d8</i>				97.9%		70 - 130 %	"			"
<i>4-BFB</i>				93.5%		70 - 130 %	"			"
BSE0281-08 (AREA2-G4-14)		Soil		Sampled: 05/29/09 10:10						P13
Benzene	EPA 8260B	ND	----	0.000900	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 21:13	
Ethylbenzene	"	ND	----	0.00240	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000600	"	"	"	"	"	
Naphthalene	"	ND	----	0.00600	"	"	"	"	"	
Toluene	"	ND	----	0.000900	"	"	"	"	"	
o-Xylene	"	ND	----	0.00300	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00300	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00600	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				96.6%		70 - 140 %	"			"
<i>Toluene-d8</i>				95.9%		70 - 130 %	"			"
<i>4-BFB</i>				93.2%		70 - 130 %	"			"
BSE0281-09 (AREA2-F3-14)		Soil		Sampled: 05/29/09 10:30						P13
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000612	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 21:39	
<i>Surrogate(s): 1,2-DCA-d4</i>				123%		70 - 140 %	"			"
<i>Toluene-d8</i>				118%		70 - 130 %	"			"
<i>4-BFB</i>				161%		70 - 130 %	"			"

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 16:05
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-10 (DUP-15)		Soil			Sampled: 05/29/09 12:00					P13
Benzene	EPA 8260B	0.0431	----	0.000921	mg/kg dry	1x	9E29019	05/29/09 16:15	05/29/09 22:04	
Methyl tert-butyl ether	"	ND	----	0.000614	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		<i>110%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>
	<i>Toluene-d8</i>		<i>104%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>
	<i>4-BFB</i>		<i>112%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 06/01/09 16:05

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-06 (AREA2-H4-14)		Soil			Sampled: 05/29/09 09:40					
Ethylbenzene	EPA 8260B	3.89	0.0139	0.116	mg/kg dry	1x	9E29010	05/29/09 13:17	05/29/09 20:19	
Toluene	"	1.63	0.0116	0.116	"	"	"	"	"	
o-Xylene	"	2.05	0.0196	0.116	"	"	"	"	"	
m,p-Xylene	"	6.80	0.0243	0.231	"	"	"	"	"	
Xylenes (total)	"	8.85	0.0358	0.347	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			113%		75 - 125 %	"				"
<i>Toluene-d8</i>			97.6%		75 - 125 %	"				"
<i>4-BFB</i>			103%		75 - 125 %	"				"
BSE0281-09 (AREA2-F3-14)		Soil			Sampled: 05/29/09 10:30					
Benzene	EPA 8260B	0.0826	0.0131	0.0262	mg/kg dry	1x	9E29010	05/29/09 13:17	05/29/09 21:39	
Ethylbenzene	"	5.78	0.0157	0.131	"	"	"	"	"	
Naphthalene	"	2.66	1.44	2.62	"	"	"	"	"	
Toluene	"	2.13	0.0131	0.131	"	"	"	"	"	
o-Xylene	"	8.04	0.0223	0.131	"	"	"	"	"	
m,p-Xylene	"	23.1	0.0275	0.262	"	"	"	"	"	
Xylenes (total)	"	31.1	0.0407	0.393	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			108%		75 - 125 %	"				"
<i>Toluene-d8</i>			97.2%		75 - 125 %	"				"
<i>4-BFB</i>			104%		75 - 125 %	"				"
BSE0281-10 (DUP-15)		Soil			Sampled: 05/29/09 12:00					
Ethylbenzene	EPA 8260B	7.47	0.0163	0.136	mg/kg dry	1x	9E29010	05/29/09 13:17	05/29/09 22:05	
Naphthalene	"	4.37	1.49	2.71	"	"	"	"	"	
Toluene	"	1.74	0.0136	0.136	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			106%		75 - 125 %	"				"
<i>Toluene-d8</i>			97.0%		75 - 125 %	"				"
<i>4-BFB</i>			109%		75 - 125 %	"				"
BSE0281-10RE1 (DUP-15)		Soil			Sampled: 05/29/09 12:00					
o-Xylene	EPA 8260B	9.08	0.231	1.36	mg/kg dry	10x	9F01015	06/01/09 12:03	06/01/09 14:50	
m,p-Xylene	"	25.5	0.285	2.71	"	"	"	"	"	
Xylenes (total)	"	34.6	0.421	4.07	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			108%		75 - 125 %	1x				"
<i>Toluene-d8</i>			98.7%		75 - 125 %	"				"
<i>4-BFB</i>			100%		75 - 125 %	"				"

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSE0281-01 (AREA2-J3-14)		Soil								Sampled: 05/29/09 08:15
Dry Weight	BSOPSP003R0 8	80.3	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	
BSE0281-02 (AREA2-J4-14)		Soil								Sampled: 05/29/09 09:00
Dry Weight	BSOPSP003R0 8	64.3	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	
BSE0281-03 (AREA2-I3-14)		Soil								Sampled: 05/29/09 09:10
Dry Weight	BSOPSP003R0 8	80.5	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	
BSE0281-04 (AREA2-I4-14)		Soil								Sampled: 05/29/09 09:20
Dry Weight	BSOPSP003R0 8	85.6	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	
BSE0281-05 (AREA2-H3-14)		Soil								Sampled: 05/29/09 09:30
Dry Weight	BSOPSP003R0 8	81.8	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	
BSE0281-06 (AREA2-H4-14)		Soil								Sampled: 05/29/09 09:40
Dry Weight	BSOPSP003R0 8	83.0	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	
BSE0281-07 (AREA2-G3-14)		Soil								Sampled: 05/29/09 10:00
Dry Weight	BSOPSP003R0 8	82.4	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	
BSE0281-08 (AREA2-G4-14)		Soil								Sampled: 05/29/09 10:10
Dry Weight	BSOPSP003R0 8	78.5	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	
BSE0281-09 (AREA2-F3-14)		Soil								Sampled: 05/29/09 10:30
Dry Weight	BSOPSP003R0 8	79.7	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	
BSE0281-10 (DUP-15)		Soil								Sampled: 05/29/09 12:00
Dry Weight	BSOPSP003R0 8	78.6	----	1.00	%	1x	9E29022	05/29/09 17:37	06/01/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 16:05
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E30008 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9E30008-BLK1)													Extracted: 05/30/09 13:05			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	05/30/09 14:37			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 83.1%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/30/09 14:37</i>		
LCS (9E30008-BS1)													Extracted: 05/30/09 13:05			
Gasoline Range Hydrocarbons	NWTPH-Gx	53.6	1.40	5.00	mg/kg wet	1x	--	50.0	107%	(80-120)	--	--	05/30/09 15:10			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 92.4%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/30/09 15:10</i>		
Duplicate (9E30008-DUP1)													QC Source: BSE0282-02		Extracted: 05/30/09 13:05	
Gasoline Range Hydrocarbons	NWTPH-Gx	11.5	1.60	5.70	mg/kg dry	1x	10.9	--	--	--	5.58% (40)		05/30/09 22:18			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 91.6%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/30/09 22:18</i>		
Duplicate (9E30008-DUP2)													QC Source: BSE0282-03		Extracted: 05/30/09 13:05	
Gasoline Range Hydrocarbons	NWTPH-Gx	4.28	1.60	5.71	mg/kg dry	1x	4.32	--	--	--	0.778% (40)		05/30/09 23:23	J		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 88.3%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/30/09 23:23</i>		
Matrix Spike (9E30008-MS1)													QC Source: BSE0282-01		Extracted: 05/30/09 13:05	
Gasoline Range Hydrocarbons	NWTPH-Gx	53.6	1.30	4.65	mg/kg dry	1x	2.14	43.8	117%	(75-130)	--	--	05/30/09 17:58			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/30/09 17:58</i>		
Matrix Spike Dup (9E30008-MSD1)													QC Source: BSE0282-01		Extracted: 05/30/09 13:05	
Gasoline Range Hydrocarbons	NWTPH-Gx	49.8	1.30	4.65	mg/kg dry	1x	2.14	43.8	109%	(75-130)	7.29% (25)		05/30/09 18:30			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>05/30/09 18:30</i>		

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01010 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F01010-BLK1)										Extracted: 06/01/09 08:01				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/01/09 08:46	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 82.3%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/01/09 08:46</i>
LCS (9F01010-BS1)										Extracted: 06/01/09 08:01				
Gasoline Range Hydrocarbons	NWTPH-Gx	52.5	1.40	5.00	mg/kg wet	1x	--	50.0	105%	(80-120)	--	--	06/01/09 09:18	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 91.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/01/09 09:18</i>
Duplicate (9F01010-DUP1)										QC Source: BSE0281-10RE1		Extracted: 06/01/09 08:01		
Gasoline Range Hydrocarbons	NWTPH-Gx	590	19.0	67.9	mg/kg dry	10x	613	--	--	--	3.87% (40)	--	06/01/09 10:56	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 122%</i>			<i>Limits: 75-140%</i>	<i>1x</i>								<i>06/01/09 10:56</i>
Matrix Spike (9F01010-MS1)										QC Source: BSE0281-10RE1		Extracted: 06/01/09 08:01		
Gasoline Range Hydrocarbons	NWTPH-Gx	1240	19.0	67.9	mg/kg dry	10x	613	542	115%	(75-130)	--	--	06/01/09 11:54	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 137%</i>			<i>Limits: 75-140%</i>	<i>1x</i>								<i>06/01/09 11:54</i>

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E29017 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E29017-BLK1)													Extracted: 05/29/09 17:26	
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	05/30/09 12:43	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/30/09 12:43</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>97.7%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	
LCS (9E29017-BS1)													Extracted: 05/29/09 17:26	
Lube Oil	NWTPH-Dx	83.3	---	25.0	mg/kg wet	1x	--	66.7	125%	(63-125)	--	--	05/30/09 13:05	
Diesel Range Hydrocarbons	"	80.7	---	10.0	"	"	--	"	121%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/30/09 13:05</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>95.6%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	
Duplicate (9E29017-DUP1)													QC Source: BSE0281-01 Extracted: 05/29/09 17:26	
Lube Oil	NWTPH-Dx	ND	---	30.7	mg/kg dry	1x	ND	--	--	--	38.0%	(50)	05/30/09 13:27	
Kerosene	"	ND	---	12.3	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.3	"	"	ND	--	--	--	22.1%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>78.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/30/09 13:27</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>99.0%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	
Duplicate (9E29017-DUP2)													QC Source: BSE0282-02 Extracted: 05/29/09 17:26	
Lube Oil	NWTPH-Dx	ND	---	26.6	mg/kg dry	1x	ND	--	--	--	13.5%	(50)	05/30/09 13:49	
Kerosene	"	ND	---	10.6	"	"	ND	--	--	--	9.74%	"	"	
Diesel Range Hydrocarbons	"	18.6	---	10.6	"	"	21.1	--	--	--	12.7%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>83.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/30/09 13:49</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>92.6%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	
Matrix Spike (9E29017-MS1)													QC Source: BSE0281-01 Extracted: 05/29/09 17:26	
Lube Oil	NWTPH-Dx	77.1	---	31.1	mg/kg dry	1x	19.2	83.0	69.8%	(26-150)	--	--	05/30/09 14:12	
Diesel Range Hydrocarbons	"	68.9	---	12.4	"	"	6.47	"	75.2%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>79.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>05/30/09 14:12</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>85.5%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E29025 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E29025-BLK1)								Extracted: 05/29/09 19:06						
Lead	EPA 6020	ND	---	0.510	mg/kg wet	1x	--	--	--	--	--	--	06/01/09 09:45	
LCS (9E29025-BS1)								Extracted: 05/29/09 19:06						
Lead	EPA 6020	37.7	---	0.485	mg/kg wet	1x	--	38.8	97.0%	(80-120)	--	--	06/01/09 09:51	
Duplicate (9E29025-DUP1)				QC Source: BSE0281-01				Extracted: 05/29/09 19:06						
Lead	EPA 6020	80.7	---	0.610	mg/kg dry	1x	36.4	--	--	--	75.7% (20)	--	06/01/09 10:10	R3
Matrix Spike (9E29025-MS1)				QC Source: BSE0281-01				Extracted: 05/29/09 19:06						
Lead	EPA 6020	89.7	---	0.610	mg/kg dry	1x	36.4	48.8	109%	(75-125)	--	--	06/01/09 10:04	
Post Spike (9E29025-PS1)				QC Source: BSE0281-01				Extracted: 05/29/09 19:06						
Lead	EPA 6020	0.161	---		ug/ml	1x	0.0585	0.100	103%	(80-120)	--	--	06/01/09 09:58	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E29019 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E29019-BLK1)													Extracted: 05/29/09 16:15	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	05/29/09 17:47	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 95.8% Limits: 70-140% "</i>													<i>05/29/09 17:47</i>	
<i>Toluene-d8 93.3% 70-130% "</i>													<i>"</i>	
<i>4-BFB 97.0% 70-130% "</i>													<i>"</i>	

LCS (9E29019-BS1)													Extracted: 05/29/09 16:15		MNR1
Benzene	EPA 8260B	0.0538	---	0.00150	mg/kg wet	1x	--	0.0500	108%	(70-125)	--	--	05/29/09 16:56		
Ethylbenzene	"	0.0438	---	0.00400	"	"	--	"	87.7%	"	--	--	"		
Methyl tert-butyl ether	"	0.0455	---	0.00100	"	"	--	"	91.1%	(70-130)	--	--	"		
Naphthalene	"	0.0478	---	0.0100	"	"	--	"	95.6%	"	--	--	"		
Toluene	"	0.0472	---	0.00150	"	"	--	"	94.5%	(70-125)	--	--	"		
Total Xylenes	"	0.128	---	0.0100	"	"	--	0.150	85.3%	(70-130)	--	--	"		
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 76.8% Limits: 70-140% "</i>													<i>05/29/09 16:56</i>		
<i>Toluene-d8 97.1% 70-130% "</i>													<i>"</i>		
<i>4-BFB 98.9% 70-130% "</i>													<i>"</i>		

LCS Dup (9E29019-BSD1)													Extracted: 05/29/09 16:15	
Benzene	EPA 8260B	0.0544	---	0.00150	mg/kg wet	1x	--	0.0500	109%	(70-125)	0.999% (30)		05/29/09 17:21	
Ethylbenzene	"	0.0436	---	0.00400	"	"	--	"	87.2%	"	0.549%	"	"	
Methyl tert-butyl ether	"	0.0468	---	0.00100	"	"	--	"	93.7%	(70-130)	2.84%	"	"	
Naphthalene	"	0.0505	---	0.0100	"	"	--	"	101%	"	5.57%	"	"	
Toluene	"	0.0453	---	0.00150	"	"	--	"	90.7%	(70-125)	4.10%	"	"	
Total Xylenes	"	0.127	---	0.0100	"	"	--	0.150	84.8%	(70-130)	0.580%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 80.5% Limits: 70-140% "</i>													<i>05/29/09 17:21</i>	
<i>Toluene-d8 94.9% 70-130% "</i>													<i>"</i>	
<i>4-BFB 99.8% 70-130% "</i>													<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 16:05
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E29010 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9E29010-BLK1)													Extracted: 05/29/09 12:17	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	05/29/09 14:41	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 99.8% Limits: 75-125% "</i>														
<i>Toluene-d8 102% 75-125% "</i>														
<i>4-BFB 98.4% 75-125% "</i>														

LCS (9E29010-BS1)													Extracted: 05/29/09 12:17		MNR1
Benzene	EPA 8260B	4.02	0.0100	0.0200	mg/kg wet	1x	--	4.00	101%	(75-125)	--	--	05/29/09 13:13		
Ethylbenzene	"	4.15	0.0120	0.100	"	"	--	"	104%	"	--	--	"		
Methyl tert-butyl ether	"	4.35	0.0100	0.0500	"	"	--	"	109%	"	--	--	"		
Naphthalene	"	4.30	1.10	2.00	"	"	--	"	107%	(60-140)	--	--	"		
Toluene	"	3.96	0.0100	0.100	"	"	--	"	98.9%	(75-125)	--	--	"		
o-Xylene	"	4.07	0.0170	0.100	"	"	--	"	102%	"	--	--	"		
m,p-Xylene	"	7.96	0.0210	0.200	"	"	--	8.00	99.4%	"	--	--	"		
Xylenes (total)	"	12.0	0.0310	0.300	"	"	--	12.0	100%	"	--	--	"		
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 96.8% Limits: 75-125% "</i>															
<i>Toluene-d8 97.7% 75-125% "</i>															
<i>4-BFB 104% 75-125% "</i>															

LCS Dup (9E29010-BSD1)													Extracted: 05/29/09 12:17	
Benzene	EPA 8260B	4.02	0.0100	0.0200	mg/kg wet	1x	--	4.00	101%	(75-125)	0.0249% (20)		05/29/09 13:40	
Ethylbenzene	"	4.17	0.0120	0.100	"	"	--	"	104%	"	0.409%	"	"	
Methyl tert-butyl ether	"	4.34	0.0100	0.0500	"	"	--	"	109%	"	0.0921%	"	"	
Naphthalene	"	4.35	1.10	2.00	"	"	--	"	109%	(60-140)	1.13%	"	"	
Toluene	"	3.93	0.0100	0.100	"	"	--	"	98.2%	(75-125)	0.710%	"	"	
o-Xylene	"	4.06	0.0170	0.100	"	"	--	"	102%	"	0.123%	"	"	
m,p-Xylene	"	7.84	0.0210	0.200	"	"	--	8.00	98.0%	"	1.44%	"	"	
Xylenes (total)	"	11.9	0.0310	0.300	"	"	--	12.0	99.2%	"	0.995%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 96.9% Limits: 75-125% "</i>														
<i>Toluene-d8 98.2% 75-125% "</i>														
<i>4-BFB 104% 75-125% "</i>														

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 16:05
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01015 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F01015-BLK1)													Extracted: 06/01/09 12:03	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	06/01/09 14:23	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 102% Limits: 75-125% "</i>														
<i>Toluene-d8 103% 75-125% "</i>														
<i>4-BFB 94.6% 75-125% "</i>														

LCS (9F01015-BS1)													Extracted: 06/01/09 12:03		MNR1
Benzene	EPA 8260B	4.14	0.0100	0.0200	mg/kg wet	1x	--	4.00	104%	(75-125)	--	--	06/01/09 12:56		
Ethylbenzene	"	4.29	0.0120	0.100	"	"	--	"	107%	"	--	--	"		
Methyl tert-butyl ether	"	4.58	0.0100	0.0500	"	"	--	"	114%	"	--	--	"		
Naphthalene	"	4.34	1.10	2.00	"	"	--	"	108%	(60-140)	--	--	"		
Toluene	"	4.09	0.0100	0.100	"	"	--	"	102%	(75-125)	--	--	"		
o-Xylene	"	4.25	0.0170	0.100	"	"	--	"	106%	"	--	--	"		
m,p-Xylene	"	8.20	0.0210	0.200	"	"	--	8.00	103%	"	--	--	"		
Xylenes (total)	"	12.5	0.0310	0.300	"	"	--	12.0	104%	"	--	--	"		
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 97.4% Limits: 75-125% "</i>															
<i>Toluene-d8 98.8% 75-125% "</i>															
<i>4-BFB 100% 75-125% "</i>															

LCS Dup (9F01015-BSD1)													Extracted: 06/01/09 12:03	
Benzene	EPA 8260B	4.01	0.0100	0.0200	mg/kg wet	1x	--	4.00	100%	(75-125)	3.14% (20)		06/01/09 13:22	
Ethylbenzene	"	4.20	0.0120	0.100	"	"	--	"	105%	"	2.21%	"	"	
Methyl tert-butyl ether	"	4.54	0.0100	0.0500	"	"	--	"	113%	"	0.922%	"	"	
Naphthalene	"	4.43	1.10	2.00	"	"	--	"	111%	(60-140)	2.08%	"	"	
Toluene	"	3.97	0.0100	0.100	"	"	--	"	99.2%	(75-125)	3.03%	"	"	
o-Xylene	"	4.07	0.0170	0.100	"	"	--	"	102%	"	4.37%	"	"	
m,p-Xylene	"	7.85	0.0210	0.200	"	"	--	8.00	98.1%	"	4.41%	"	"	
Xylenes (total)	"	11.9	0.0310	0.300	"	"	--	12.0	99.4%	"	4.40%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 98.2% Limits: 75-125% "</i>														
<i>Toluene-d8 98.7% 75-125% "</i>														
<i>4-BFB 103% 75-125% "</i>														

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/01/09 16:05
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9E29022 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9E29022-BLK1)

Extracted: 05/29/09 17:37

Dry Weight	BSOPSP00 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/01/09 00:00	
------------	------------------	-----	-----	------	---	----	----	----	----	----	----	----	----------------	--

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/01/09 16:05

Notes and Definitions

Report Specific Notes:

- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q5 - Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSE0281**

CLIENT:	SONOLO SHELLERS	INVOICE TO:	CP	TURNAROUND REQUEST			
REPORT TO:	Wmcp Staff	P.O. NUMBER:		Organic & Inorganic Analyses			
ADDRESS:		PROJECT NAME:	Wmcp Phase II	Petroleum Hydrocarbon Analyses			
PHONE:		PROJECT NUMBER:		STD.			
FAX:		SAMPLED BY:	Matthew McKibbin	OTHER			
		CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Specify: <i>Zf-hr</i>			
				* Turnaround Requests less than standard may incur Rush Charges.			
				Matrix (W, S, O)			
				# OF CONT.			
				LOCATION/ COMMENTS			
				TA WO ID			
1	Area 2-J3-14	5-29-09 / 0815		S	4	Coarsely silty sand PED = 1.2 ppm	-01
2	" -J4-14	" / 0900			4	Coarsely sand Open	-02
3	" I3-14	" / 0910			4	Coarsely silty sand 1.1 ppm	-03
4	" I4-14	" / 0920			4	Coarsely silty sand 0.13 ppm	-04
5	" #3-14	" / 0930			4	Coarsely silty sand	-05
6	" H4-14	" / 0940			4	Coarsely Silty Sand	-06
7	" G3-14	" / 1000			4	Silty Sand 8.2 ppm	-07
8	" G4-14	" / 1010			4	Silty Sand 2.9 ppm	-08
9	" F3-14	" / 1030			4	Silty Sand 0.1 ppm	-09
10	DUF-15	" / 1200		V	4	165 ppm	-10

RECEIVED BY: *[Signature]* DATE: 5-29-09 FIRM: *WKS*
 PRINT NAME: Francisco Lang Jr. TIME: 1310
 RECEIVED BY: *[Signature]* DATE: 5-29-09 FIRM: *JA-SEH*
 PRINT NAME: TIME: 1330
 RECEIVED BY: *[Signature]* DATE: TIME:
 PRINT NAME: TIME:

ADDITIONAL REMARKS:
 TCUF all samples w/ total lead = 500 mg/kg
 @ Lab 1630 w/o 3:4
 PAGE OF

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
(applies to temp at receipt)

Date: 5/29/09 Date: 5/29/09 Date: 5/29/09 Date: _____ Work Order No. BSE0281

Time: 1630 Time: 1658 Time: 1815 Time: _____ Client: _____

Initials: FL Initials: FL Initials: FL Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
_____ Box _____ On Bottles _____ Date _____ Foam Packs _____
_____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
_____ Loose Ice _____ or N or NA _____ UPS TA Courier
_____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley
_____ Senvoy _____ TDP
_____ GS _____ Other _____

Cooler Temperature (IR): 3.4 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)
Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
(initial/date/time): _____
Comments: _____

Sample Containers: _____ ID _____ ID _____
Intact? or N _____ Metals Preserved? Y or N or NA
Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA
Correct Type? or N _____ Adequate Volume? or N _____
(for tests requested)
#Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA
IDs/time/date match COC? or N _____ Comments: _____
Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

June 02, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/01/09 15:15.
The following list is a summary of the Work Orders contained in this report, generated on 06/02/09
16:39.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0014	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/02/09 16:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-K1-14	BSF0014-01	Soil	06/01/09 08:10	06/01/09 15:15
AREA1-K1-9	BSF0014-02	Soil	06/01/09 08:30	06/01/09 15:15
AREA1-K4-9	BSF0014-03	Soil	06/01/09 09:00	06/01/09 15:15
AREA1-K2-9	BSF0014-04	Soil	06/01/09 09:20	06/01/09 15:15
DUP-16	BSF0014-05	Soil	06/01/09 12:00	06/01/09 15:15
AREA2-J2-14	BSF0014-06	Soil	06/01/09 14:00	06/01/09 15:15

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/02/09 16:39
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0014-01 (AREA1-K1-14)		Soil		Sampled: 06/01/09 08:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	36.9	1.61	5.76	mg/kg dry	1x	9F01006	06/01/09 15:50	06/01/09 18:51	
Surrogate(s): 4-BFB (FID)			123%		75 - 140 %	"				"
BSF0014-02 (AREA1-K1-9)		Soil		Sampled: 06/01/09 08:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.80	6.43	mg/kg dry	1x	9F01006	06/01/09 15:50	06/01/09 19:24	
Surrogate(s): 4-BFB (FID)			105%		75 - 140 %	"				"
BSF0014-03 (AREA1-K4-9)		Soil		Sampled: 06/01/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.90	6.78	mg/kg dry	1x	9F01006	06/01/09 15:50	06/01/09 19:57	
Surrogate(s): 4-BFB (FID)			108%		75 - 140 %	"				"
BSF0014-04 (AREA1-K2-9)		Soil		Sampled: 06/01/09 09:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.25	4.48	mg/kg dry	1x	9F01006	06/01/09 15:50	06/01/09 20:30	
Surrogate(s): 4-BFB (FID)			121%		75 - 140 %	"				"
BSF0014-05 (DUP-16)		Soil		Sampled: 06/01/09 12:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	36.8	1.72	6.14	mg/kg dry	1x	9F01006	06/01/09 15:50	06/01/09 21:03	
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	"				"
BSF0014-06 (AREA2-J2-14)		Soil		Sampled: 06/01/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.63	5.82	mg/kg dry	1x	9F01006	06/01/09 15:50	06/01/09 21:37	
Surrogate(s): 4-BFB (FID)			116%		75 - 140 %	"				"

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/02/09 16:39
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0014-01 (AREA1-K1-14)		Soil		Sampled: 06/01/09 08:10						
Lube Oil	NWTPH-Dx	ND	----	30.5	mg/kg dry	1x	9F01040	06/01/09 15:55	06/01/09 20:36	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.1%		54 - 148 %	"				"
<i>Octacosane</i>			96.3%		62 - 142 %	"				"
BSF0014-02 (AREA1-K1-9)		Soil		Sampled: 06/01/09 08:30						
Lube Oil	NWTPH-Dx	ND	----	30.3	mg/kg dry	1x	9F01040	06/01/09 15:55	06/01/09 20:59	
Kerosene	"	ND	----	12.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			82.3%		54 - 148 %	"				"
<i>Octacosane</i>			94.9%		62 - 142 %	"				"
BSF0014-03 (AREA1-K4-9)		Soil		Sampled: 06/01/09 09:00						
Lube Oil	NWTPH-Dx	ND	----	31.2	mg/kg dry	1x	9F01040	06/01/09 15:55	06/01/09 21:21	
Kerosene	"	ND	----	12.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			79.9%		54 - 148 %	"				"
<i>Octacosane</i>			94.5%		62 - 142 %	"				"
BSF0014-04 (AREA1-K2-9)		Soil		Sampled: 06/01/09 09:20						
Lube Oil	NWTPH-Dx	ND	----	30.6	mg/kg dry	1x	9F01040	06/01/09 15:55	06/01/09 21:43	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			87.5%		54 - 148 %	"				"
<i>Octacosane</i>			97.7%		62 - 142 %	"				"
BSF0014-05 (DUP-16)		Soil		Sampled: 06/01/09 12:00						
Lube Oil	NWTPH-Dx	ND	----	31.0	mg/kg dry	1x	9F01040	06/01/09 15:55	06/01/09 22:06	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.4%		54 - 148 %	"				"
<i>Octacosane</i>			95.2%		62 - 142 %	"				"

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/02/09 16:39

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0014-06 (AREA2-J2-14)		Soil			Sampled: 06/01/09 14:00					
Lube Oil	NWTPH-Dx	ND	----	31.5	mg/kg dry	1x	9F01040	06/01/09 15:55	06/01/09 22:29	
Kerosene	"	ND	----	12.6	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	12.6	"	"	"	"	"	"
<i>Surrogate(s):</i> 2-FBP			77.0%		54 - 148 %	"				"
Octacosane			92.1%		62 - 142 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/02/09 16:39
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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0014-01 (AREA1-K1-14)		Soil			Sampled: 06/01/09 08:10					
Lead	EPA 6020	4.50	----	0.600	mg/kg dry	1x	9F01042	06/01/09 16:34	06/02/09 08:58	
BSF0014-02 (AREA1-K1-9)		Soil			Sampled: 06/01/09 08:30					
Lead	EPA 6020	1.46	----	0.613	mg/kg dry	1x	9F01042	06/01/09 16:34	06/02/09 09:04	
BSF0014-03 (AREA1-K4-9)		Soil			Sampled: 06/01/09 09:00					
Lead	EPA 6020	2.42	----	0.607	mg/kg dry	1x	9F01042	06/01/09 16:34	06/02/09 09:10	
BSF0014-04 (AREA1-K2-9)		Soil			Sampled: 06/01/09 09:20					
Lead	EPA 6020	2.57	----	0.540	mg/kg dry	1x	9F01042	06/01/09 16:34	06/02/09 09:17	
BSF0014-05 (DUP-16)		Soil			Sampled: 06/01/09 12:00					
Lead	EPA 6020	5.49	----	0.592	mg/kg dry	1x	9F01042	06/01/09 16:34	06/02/09 09:23	
BSF0014-06 (AREA2-J2-14)		Soil			Sampled: 06/01/09 14:00					
Lead	EPA 6020	8.44	----	0.573	mg/kg dry	1x	9F01042	06/01/09 16:34	06/02/09 09:48	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/02/09 16:39

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSF0014-01 (AREA1-K1-14) Soil Sampled: 06/01/09 08:10

Benzene	EPA 8260B	ND	----	0.000977	mg/kg dry	1x	9F01018	06/01/09 15:07	06/01/09 18:56	
Ethylbenzene	"	0.0188	----	0.00260	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000651	"	"	"	"	"	
Naphthalene	"	0.0295	----	0.00651	"	"	"	"	"	
Toluene	"	ND	----	0.000977	"	"	"	"	"	
o-Xylene	"	ND	----	0.00326	"	"	"	"	"	
m,p-Xylene	"	0.0246	----	0.00326	"	"	"	"	"	
Total Xylenes	"	0.0258	----	0.00651	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>103%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>98.6%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>106%</i>	<i>70 - 130 %</i>						

BSF0014-02 (AREA1-K1-9) Soil Sampled: 06/01/09 08:30

Benzene	EPA 8260B	ND	----	0.00104	mg/kg dry	1x	9F01018	06/01/09 15:07	06/01/09 19:22	
Ethylbenzene	"	ND	----	0.00277	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000692	"	"	"	"	"	
Naphthalene	"	ND	----	0.00692	"	"	"	"	"	
Toluene	"	ND	----	0.00104	"	"	"	"	"	
o-Xylene	"	ND	----	0.00346	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00346	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00692	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>95.6%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>99.3%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>108%</i>	<i>70 - 130 %</i>						

BSF0014-03 (AREA1-K4-9) Soil Sampled: 06/01/09 09:00

Benzene	EPA 8260B	ND	----	0.00104	mg/kg dry	1x	9F01018	06/01/09 15:07	06/01/09 19:47	
Ethylbenzene	"	ND	----	0.00278	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000695	"	"	"	"	"	
Naphthalene	"	ND	----	0.00695	"	"	"	"	"	
Toluene	"	ND	----	0.00104	"	"	"	"	"	
o-Xylene	"	ND	----	0.00347	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00347	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00695	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			<i>93.7%</i>	<i>70 - 140 %</i>						
<i>Toluene-d8</i>			<i>98.1%</i>	<i>70 - 130 %</i>						
<i>4-BFB</i>			<i>101%</i>	<i>70 - 130 %</i>						

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/02/09 16:39
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSF0014-04 (AREA1-K2-9)	Soil		Sampled: 06/01/09 09:20								P13
Benzene	EPA 8260B	ND	----	0.000551	mg/kg dry	1x	9F01018	06/01/09 15:07	06/01/09 20:13		
Ethylbenzene	"	ND	----	0.00147	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000367	"	"	"	"	"		
Naphthalene	"	ND	----	0.00367	"	"	"	"	"		
Toluene	"	ND	----	0.000551	"	"	"	"	"		
o-Xylene	"	ND	----	0.00184	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00184	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00367	"	"	"	"	"		

<i>Surrogate(s):</i> 1,2-DCA-d4	98.2%	70 - 140 %	"	"
Toluene-d8	94.9%	70 - 130 %	"	"
4-BFB	94.8%	70 - 130 %	"	"

BSF0014-05 (DUP-16)	Soil		Sampled: 06/01/09 12:00							
Benzene	EPA 8260B	ND	----	0.000967	mg/kg dry	1x	9F01018	06/01/09 15:07	06/01/09 20:38	
Ethylbenzene	"	0.0216	----	0.00258	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000645	"	"	"	"	"	
Naphthalene	"	0.0399	----	0.00645	"	"	"	"	"	
Toluene	"	ND	----	0.000967	"	"	"	"	"	
o-Xylene	"	ND	----	0.00322	"	"	"	"	"	
m,p-Xylene	"	0.0379	----	0.00322	"	"	"	"	"	
Total Xylenes	"	0.0394	----	0.00645	"	"	"	"	"	

<i>Surrogate(s):</i> 1,2-DCA-d4	94.0%	70 - 140 %	"	"
Toluene-d8	102%	70 - 130 %	"	"
4-BFB	98.3%	70 - 130 %	"	"

BSF0014-06 (AREA2-J2-14)	Soil		Sampled: 06/01/09 14:00								P13
Benzene	EPA 8260B	ND	----	0.000880	mg/kg dry	1x	9F01018	06/01/09 15:07	06/01/09 21:04		
Ethylbenzene	"	ND	----	0.00235	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000587	"	"	"	"	"		
Naphthalene	"	ND	----	0.00587	"	"	"	"	"		
Toluene	"	ND	----	0.000880	"	"	"	"	"		
o-Xylene	"	ND	----	0.00293	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00293	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00587	"	"	"	"	"		

<i>Surrogate(s):</i> 1,2-DCA-d4	89.1%	70 - 140 %	"	"
Toluene-d8	97.2%	70 - 130 %	"	"
4-BFB	98.1%	70 - 130 %	"	"

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/02/09 16:39

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0014-01 (AREA1-K1-14)		Soil								Sampled: 06/01/09 08:10
Dry Weight	BSOPSP003R0 8	83.4	----	1.00	%	1x	9F01043	06/01/09 16:36	06/02/09 00:00	
BSF0014-02 (AREA1-K1-9)		Soil								Sampled: 06/01/09 08:30
Dry Weight	BSOPSP003R0 8	82.4	----	1.00	%	1x	9F01043	06/01/09 16:36	06/02/09 00:00	
BSF0014-03 (AREA1-K4-9)		Soil								Sampled: 06/01/09 09:00
Dry Weight	BSOPSP003R0 8	79.2	----	1.00	%	1x	9F01043	06/01/09 16:36	06/02/09 00:00	
BSF0014-04 (AREA1-K2-9)		Soil								Sampled: 06/01/09 09:20
Dry Weight	BSOPSP003R0 8	80.5	----	1.00	%	1x	9F01043	06/01/09 16:36	06/02/09 00:00	
BSF0014-05 (DUP-16)		Soil								Sampled: 06/01/09 12:00
Dry Weight	BSOPSP003R0 8	81.2	----	1.00	%	1x	9F01043	06/01/09 16:36	06/02/09 00:00	
BSF0014-06 (AREA2-J2-14)		Soil								Sampled: 06/01/09 14:00
Dry Weight	BSOPSP003R0 8	78.6	----	1.00	%	1x	9F01043	06/01/09 16:36	06/02/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01006 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F01006-BLK1)										Extracted: 06/01/09 08:16				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/01/09 08:54	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>						<i>06/01/09 08:54</i>		
LCS (9F01006-BS1)										Extracted: 06/01/09 08:16				
Gasoline Range Hydrocarbons	NWTPH-Gx	54.3	1.40	5.00	mg/kg wet	1x	--	50.0	109%	(80-120)	--	--	06/01/09 09:27	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.9%</i>			<i>Limits: 75-140%</i>	<i>"</i>						<i>06/01/09 09:27</i>		
Duplicate (9F01006-DUP1)										QC Source: BSE0282-03RE1		Extracted: 06/01/09 08:16		
Gasoline Range Hydrocarbons	NWTPH-Gx	5.46	1.45	5.19	mg/kg wet	1x	4.64	--	--	--	16.2% (40)		06/01/09 11:40	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 88.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>						<i>06/01/09 11:40</i>		
Duplicate (9F01006-DUP2)										QC Source: BSF0015-01		Extracted: 06/01/09 08:16		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.52	5.42	mg/kg dry	1x	ND	--	--	--	NR (40)		06/01/09 22:43	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.3%</i>			<i>Limits: 75-140%</i>	<i>"</i>						<i>06/01/09 22:43</i>		
Matrix Spike (9F01006-MS1)										QC Source: BSE0282-02RE1		Extracted: 06/01/09 08:16		
Gasoline Range Hydrocarbons	NWTPH-Gx	63.2	1.37	4.90	mg/kg wet	1x		49.0	129%	(75-130)	--	--	06/01/09 16:38	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.5%</i>			<i>Limits: 75-140%</i>	<i>"</i>						<i>06/01/09 16:38</i>		

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/02/09 16:39
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01040 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F01040-BLK1)

Extracted: 06/01/09 15:55

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/01/09 19:07	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/01/09 19:07</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>100%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9F01040-BS1)

Extracted: 06/01/09 15:55

Lube Oil	NWTPH-Dx	67.7	---	25.0	mg/kg wet	1x	--	66.7	102%	(63-125)	--	--	06/01/09 19:29	
Diesel Range Hydrocarbons	"	65.4	---	10.0	"	"	--	"	98.1%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>91.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/01/09 19:29</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>95.9%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9F01040-DUP1)

QC Source: BSF0014-02

Extracted: 06/01/09 15:55

Lube Oil	NWTPH-Dx	ND	---	30.7	mg/kg dry	1x	ND	--	--	--	(50)	--	06/01/09 19:51	R4
Kerosene	"	ND	---	12.3	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.3	"	"	ND	--	--	--	"	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/01/09 19:51</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>96.0%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9F01040-MS1)

QC Source: BSF0014-02

Extracted: 06/01/09 15:55

Lube Oil	NWTPH-Dx	80.0	---	30.2	mg/kg dry	1x	ND	80.6	99.2%	(26-150)	--	--	06/01/09 20:14	
Diesel Range Hydrocarbons	"	75.6	---	12.1	"	"	ND	"	93.8%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>77.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/01/09 20:14</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>89.9%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/02/09 16:39

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9F01042

Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F01042-BLK1)								Extracted: 06/01/09 16:34						
Lead	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	06/02/09 08:26	
LCS (9F01042-BS1)								Extracted: 06/01/09 16:34						
Lead	EPA 6020	40.7	---	0.500	mg/kg wet	1x	--	40.0	102%	(80-120)	--	--	06/02/09 08:33	
Duplicate (9F01042-DUP1)				QC Source: BSF0014-01				Extracted: 06/01/09 16:34						
Lead	EPA 6020	4.68	---	0.606	mg/kg dry	1x	4.50	--	--	--	3.76% (20)	--	06/02/09 08:51	
Matrix Spike (9F01042-MS1)				QC Source: BSF0014-01				Extracted: 06/01/09 16:34						
Lead	EPA 6020	54.1	---	0.606	mg/kg dry	1x	4.50	48.5	102%	(75-125)	--	--	06/02/09 08:45	
Post Spike (9F01042-PS1)				QC Source: BSF0014-01				Extracted: 06/01/09 16:34						
Lead	EPA 6020	0.115	---		ug/ml	1x	0.00751	0.100	107%	(80-120)	--	--	06/02/09 08:39	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/02/09 16:39
--	---	-----------------------------------

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01018 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F01018-BLK1)													Extracted: 06/01/09 15:07			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/01/09 18:05			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 100%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/01/09 18:05</i>
<i>Toluene-d8</i>													<i>92.9%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>92.8%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9F01018-BS1)													Extracted: 06/01/09 15:07			
Benzene	EPA 8260B	0.0549	---	0.00150	mg/kg wet	1x	--	0.0500	110%	(70-125)	--	--	06/01/09 17:13			
Ethylbenzene	"	0.0450	---	0.00400	"	"	--	"	89.9%	"	--	--	"			
Methyl tert-butyl ether	"	0.0483	---	0.00100	"	"	--	"	96.7%	(70-130)	--	--	"			
Naphthalene	"	0.0510	---	0.0100	"	"	--	"	102%	"	--	--	"			
Toluene	"	0.0473	---	0.00150	"	"	--	"	94.7%	(70-125)	--	--	"			
Total Xylenes	"	0.131	---	0.0100	"	"	--	0.150	87.3%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 81.2%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/01/09 17:13</i>
<i>Toluene-d8</i>													<i>96.6%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.2%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9F01018-BSD1)													Extracted: 06/01/09 15:07			
Benzene	EPA 8260B	0.0565	---	0.00150	mg/kg wet	1x	--	0.0500	113%	(70-125)	2.98% (30)		06/01/09 17:39			
Ethylbenzene	"	0.0468	---	0.00400	"	"	--	"	93.5%	"	3.93%	"	"			
Methyl tert-butyl ether	"	0.0509	---	0.00100	"	"	--	"	102%	(70-130)	5.12%	"	"			
Naphthalene	"	0.0528	---	0.0100	"	"	--	"	106%	"	3.55%	"	"			
Toluene	"	0.0489	---	0.00150	"	"	--	"	97.7%	(70-125)	3.16%	"	"			
Total Xylenes	"	0.136	---	0.0100	"	"	--	0.150	90.5%	(70-130)	3.64%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 81.2%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/01/09 17:39</i>
<i>Toluene-d8</i>													<i>97.0%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.2%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/02/09 16:39
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01043 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F01043-BLK1)										Extracted: 06/01/09 16:36				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/02/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/02/09 16:39

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/02/09 16:39

Notes and Definitions

Report Specific Notes:

- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

Work Order #: **BSF0014**

CHAIN OF CUSTODY REPORT

CLIENT: CAROLLO PHILLIPS		INVOICE TO: CP	
REPORT TO: WMCP		ADDRESS:	
PHONE:	FAX:	P.O. NUMBER:	
PROJECT NAME: WMCP PHASE II		PRESERVATIVE:	
PROJECT NUMBER:		REQUESTED ANALYSES:	
SAMPLED BY: Matthew Miskibin	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	ANALYSES
1	AREA 1-K1-14	6-1-09 / 0810	LEAD
2	" K1-9	" / 0830	
3	" K4-9	" / 0900	
4	" K2-9	" / 0920	
5	DWP-16	" / 1200	
6	AREA 2-52-14	1400	
7			
8			
9			
10			

TURNAROUND REQUEST
 in Business Days *
 Organic & Inorganic Analyses
 Petroleum Hydrocarbon Analyses

10	7	5	4	3	2	1	<1
STD.							

OTHER Specify: **24-h**
 * Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
S	4	Silty Gravelly Sand	-01
S	4	RPD = 16/1ppm Sand	-02
S	4	RPD = 0.3ppm Silty Sand	-03
S	4	Oppon Sand	-04
S	4	Oppon eyes	-05
S	4	RPD = 0.3ppm Sand/ty soil	-06

RELEASED BY: **Tom Zank** DATE: **6/9/09**
 PRINT NAME: **Tom Zank** FIRM: **TA-J** TIME: **1445**
 RECEIVED BY: **Blankinship** FIRM: **TA-J** DATE: **6/9/09** TIME: **1445**

RECEIVED BY: **@gab1515** FIRM: **TA-J** DATE: **6/9/09** TIME: **1445**
 ADDITIONAL REMARKS: **TCLP all samples w/ total lead 2500mg/kg**

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 6/1 Date: 6/1 Date: 6/1 Date: 6/1/09 Work Order No. BSF0014
 Time: 1515 Time: 1530 Time: 1615 Time: 16-20 Client: _____
 Initials: TB Initials: TB Initials: TB Initials: ATJ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs
 _____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ Y or N or NA UPS TA Courier
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley
 _____ GS _____ Other _____

Cooler Temperature (IR): 4.2°C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ ID _____ ID _____
 Intact? or N _____ Metals Preserved? Y or N or NA
 Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA
 Correct Type? or N _____ Adequate Volume? or N _____
 (for tests requested)
 #Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA
 IDs/time/date match COC? or N _____ Comments: _____
 Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

June 02, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 06/01/09 15:15.
The following list is a summary of the Work Orders contained in this report, generated on 06/02/09
16:47.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0015	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/02/09 16:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot 34-20	BSF0015-01	Soil	06/01/09 13:00	06/01/09 15:15

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	06/02/09 16:47
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0015-01 (Amazon Lot 34-20)		Soil		Sampled: 06/01/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	5.42	mg/kg dry	1x	9F01006	06/01/09 15:50	06/01/09 22:10	
<i>Surrogate(s): 4-BFB (FID)</i>			92.8%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	06/02/09 16:47
	Project Manager:	Ty Griffith	

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0015-01 (Amazon Lot 34-20)		Soil			Sampled: 06/01/09 13:00					
Lube Oil	NWTPH-Dx	ND	----	26.4	mg/kg dry	1x	9F01039	06/01/09 16:09	06/02/09 01:27	
Kerosene	"	ND	----	10.6	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	10.6	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				<i>81.6%</i>	<i>54 - 148 %</i>	"				"
<i>Octacosane</i>				<i>101%</i>	<i>62 - 142 %</i>	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 06/02/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0015-01 (Amazon Lot 34-20)		Soil		Sampled: 06/01/09 13:00						
Acetone	EPA 8260B	ND	----	22.9	ug/kg dry	1x	9F01018	06/01/09 15:07	06/01/09 18:30	
Benzene	"	ND	----	0.859	"	"	"	"	"	I
Bromobenzene	"	ND	----	2.86	"	"	"	"	"	I
Bromochloromethane	"	ND	----	2.86	"	"	"	"	"	
Bromodichloromethane	"	ND	----	2.86	"	"	"	"	"	I
Bromoform	"	ND	----	2.86	"	"	"	"	"	I
Bromomethane	"	ND	----	5.73	"	"	"	"	"	
2-Butanone	"	ND	----	17.2	"	"	"	"	"	
n-Butylbenzene	"	ND	----	2.86	"	"	"	"	"	I
sec-Butylbenzene	"	ND	----	2.86	"	"	"	"	"	I
tert-Butylbenzene	"	ND	----	2.86	"	"	"	"	"	I
Carbon disulfide	"	ND	----	1.72	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	2.86	"	"	"	"	"	I
Chlorobenzene	"	ND	----	1.15	"	"	"	"	"	I
Chloroethane	"	ND	----	2.86	"	"	"	"	"	
Chloroform	"	ND	----	1.43	"	"	"	"	"	
Chloromethane	"	ND	----	5.73	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	2.86	"	"	"	"	"	I
4-Chlorotoluene	"	ND	----	2.86	"	"	"	"	"	I
Dibromochloromethane	"	ND	----	2.86	"	"	"	"	"	I
1,2-Dibromo-3-chloropropane	"	ND	----	5.73	"	"	"	"	"	I
1,2-Dibromoethane (EDB)	"	ND	----	2.86	"	"	"	"	"	I
Dibromomethane	"	ND	----	2.86	"	"	"	"	"	I
1,2-Dichlorobenzene	"	ND	----	2.86	"	"	"	"	"	I
1,3-Dichlorobenzene	"	ND	----	2.86	"	"	"	"	"	I
1,4-Dichlorobenzene	"	ND	----	2.86	"	"	"	"	"	I
Dichlorodifluoromethane	"	ND	----	2.86	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	1.15	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	0.716	"	"	"	"	"	I
1,1-Dichloroethene	"	ND	----	1.72	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	1.72	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	1.43	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	2.86	"	"	"	"	"	I
1,3-Dichloropropane	"	ND	----	2.86	"	"	"	"	"	I
2,2-Dichloropropane	"	ND	----	5.73	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	2.86	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	2.86	"	"	"	"	"	I
trans-1,3-Dichloropropene	"	ND	----	0.716	"	"	"	"	"	I
Ethylbenzene	"	ND	----	2.29	"	"	"	"	"	I
Hexachlorobutadiene	"	ND	----	5.73	"	"	"	"	"	I
Methyl tert-butyl ether	"	ND	----	0.573	"	"	"	"	"	
n-Hexane	"	ND	----	2.86	"	"	"	"	"	
2-Hexanone	"	ND	----	17.2	"	"	"	"	"	I

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 06/02/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0015-01 (Amazon Lot 34-20)		Soil		Sampled: 06/01/09 13:00						
Isopropylbenzene	EPA 8260B	ND	----	2.86	ug/kg dry	1x	9F01018	06/01/09 15:07	06/01/09 18:30	I
p-Isopropyltoluene	"	ND	----	2.86	"	"	"	"	"	I
4-Methyl-2-pentanone	"	ND	----	17.2	"	"	"	"	"	I
Methylene chloride	"	ND	----	6.87	"	"	"	"	"	I
Naphthalene	"	ND	----	5.73	"	"	"	"	"	I
n-Propylbenzene	"	ND	----	2.86	"	"	"	"	"	I
Styrene	"	ND	----	1.43	"	"	"	"	"	I
1,2,3-Trichlorobenzene	"	ND	----	5.73	"	"	"	"	"	I
1,2,4-Trichlorobenzene	"	ND	----	5.73	"	"	"	"	"	I
1,1,1,2-Tetrachloroethane	"	ND	----	2.86	"	"	"	"	"	I
1,1,1,2,2-Tetrachloroethane	"	ND	----	2.86	"	"	"	"	"	I
Tetrachloroethene	"	ND	----	1.15	"	"	"	"	"	I
Toluene	"	ND	----	0.859	"	"	"	"	"	I
1,1,1-Trichloroethane	"	ND	----	1.43	"	"	"	"	"	I
1,1,2-Trichloroethane	"	ND	----	1.15	"	"	"	"	"	I
Trichloroethene	"	ND	----	1.43	"	"	"	"	"	I
Trichlorofluoromethane	"	ND	----	2.86	"	"	"	"	"	I
1,2,3-Trichloropropane	"	ND	----	2.86	"	"	"	"	"	I
1,2,4-Trimethylbenzene	"	ND	----	2.86	"	"	"	"	"	I
1,3,5-Trimethylbenzene	"	ND	----	2.86	"	"	"	"	"	I
Vinyl chloride	"	ND	----	1.43	"	"	"	"	"	I
o-Xylene	"	ND	----	2.86	"	"	"	"	"	I
m,p-Xylene	"	ND	----	2.86	"	"	"	"	"	I
Total Xylenes	"	ND	----	5.73	"	"	"	"	"	I
<i>Surrogate(s): 1,2-DCA-d4</i>				86.4%		70 - 140 %	"		"	
<i>Toluene-d8</i>				99.5%		70 - 130 %	"		"	
<i>4-BFB</i>				97.8%		70 - 130 %	"		"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/02/09 16:47

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0015-01 (Amazon Lot 34-20)										
		Soil								
										Sampled: 06/01/09 13:00
Acenaphthene	8270C-SIM	ND	----	0.0106	mg/kg dry	1x	9F01019	06/01/09 13:19	06/02/09 00:09	
Acenaphthylene	"	ND	----	0.0106	"	"	"	"	"	"
Anthracene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0106	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0106	"	"	"	"	"	"
Chrysene	"	ND	----	0.0106	"	"	"	"	"	"
Dibenz (a,h) anthracene	"	ND	----	0.0106	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0106	"	"	"	"	"	"
Fluorene	"	ND	----	0.0106	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0106	"	"	"	"	"	"
1-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	"
2-Methylnaphthalene	"	ND	----	0.0106	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0106	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0106	"	"	"	"	"	"
Pyrene	"	ND	----	0.0106	"	"	"	"	"	"
<i>Surrogate(s): p-Terphenyl-d14</i>			82.2%		46 - 125 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	06/02/09 16:47
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0015-01	(Amazon Lot 34-20)	Soil			Sampled: 06/01/09 13:00					
Dry Weight	BSOPSP003R0 8	94.6	----	1.00	%	1x	9F01043	06/01/09 16:36	06/02/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/02/09 16:47
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01006 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F01006-BLK1)										Extracted: 06/01/09 08:16						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/01/09 08:54			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/01/09 08:54</i>			
LCS (9F01006-BS1)										Extracted: 06/01/09 08:16						
Gasoline Range Hydrocarbons	NWTPH-Gx	54.3	---	5.00	mg/kg wet	1x	--	50.0	109%	(80-120)	--	--	06/01/09 09:27			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 94.9%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/01/09 09:27</i>			
Duplicate (9F01006-DUP1)										QC Source: BSE0282-03RE1		Extracted: 06/01/09 08:16				
Gasoline Range Hydrocarbons	NWTPH-Gx	5.46	---	5.19	mg/kg wet	1x	ND	--	--	--	16.2% (40)		06/01/09 11:40			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 88.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/01/09 11:40</i>			
Duplicate (9F01006-DUP2)										QC Source: BSF0015-01		Extracted: 06/01/09 08:16				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	5.42	mg/kg dry	1x	ND	--	--	--	NR (40)		06/01/09 22:43			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.3%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/01/09 22:43</i>			
Matrix Spike (9F01006-MS1)										QC Source: BSE0282-02RE1		Extracted: 06/01/09 08:16				
Gasoline Range Hydrocarbons	NWTPH-Gx	63.2	---	4.90	mg/kg wet	1x		49.0	129%	(75-130)	--	--	06/01/09 16:38			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.5%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/01/09 16:38</i>			

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/02/09 16:47
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01039 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F01039-BLK1)

Extracted: 06/01/09 16:09

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/01/09 23:58	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>94.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/01/09 23:58</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9F01039-BS1)

Extracted: 06/01/09 16:09

Lube Oil	NWTPH-Dx	62.9	---	25.0	mg/kg wet	1x	--	66.7	94.3%	(63-125)	--	--	06/02/09 00:20	
Diesel Range Hydrocarbons	"	62.9	---	10.0	"	"	--	"	94.3%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/02/09 00:20</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>97.0%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9F01039-DUP1)

QC Source: BSF0015-01

Extracted: 06/01/09 16:09

Lube Oil	NWTPH-Dx	ND	---	26.3	mg/kg dry	1x	ND	--	--	--	1.21% (50)	--	06/02/09 00:42	
Kerosene	"	ND	---	10.5	"	"	ND	--	--	--	128%	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	10.5	"	"	ND	--	--	--	10.3%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/02/09 00:42</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>99.8%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9F01039-MS1)

QC Source: BSF0015-01

Extracted: 06/01/09 16:09

Lube Oil	NWTPH-Dx	82.1	---	26.3	mg/kg dry	1x	12.1	70.0	100%	(26-150)	--	--	06/02/09 01:05	
Diesel Range Hydrocarbons	"	73.8	---	10.5	"	"	3.30	"	101%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.1%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/02/09 01:05</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>94.8%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/02/09 16:47
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01042 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F01042-BLK1)

Extracted: 06/01/09 16:34

Chromium	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	06/02/09 08:26	
Silver	"	ND	---	0.515	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.515	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.515	"	"	--	--	--	--	--	--	"	
Arsenic	"	ND	---	0.515	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	1.03	"	"	--	--	--	--	--	--	"	
Barium	"	ND	---	5.15	"	"	--	--	--	--	--	--	"	

LCS (9F01042-BS1)

Extracted: 06/01/09 16:34

Selenium	EPA 6020	42.3	---	1.00	mg/kg wet	1x	--	40.0	106%	(80-120)	--	--	06/02/09 08:33	
Chromium	"	41.2	---	0.500	"	"	--	"	103%	"	--	--	"	
Lead	"	40.7	---	0.500	"	"	--	"	102%	"	--	--	"	
Silver	"	41.2	---	0.500	"	"	--	"	103%	"	--	--	"	
Barium	"	39.6	---	5.00	"	"	--	"	99.0%	"	--	--	"	
Cadmium	"	39.8	---	0.500	"	"	--	"	99.6%	"	--	--	"	
Arsenic	"	40.2	---	0.500	"	"	--	"	100%	"	--	--	"	

Duplicate (9F01042-DUP1)

QC Source: BSF0014-01

Extracted: 06/01/09 16:34

Chromium	EPA 6020	36.3	---	0.606	mg/kg dry	1x	38.1	--	--	--	4.85% (20)	--	06/02/09 08:51	
Silver	"	ND	---	0.606	"	"	ND	--	--	--	NR	"	"	
Lead	"	4.68	---	0.606	"	"	4.50	--	--	--	3.76%	"	"	
Arsenic	"	2.97	---	0.606	"	"	2.73	--	--	--	8.40%	"	"	
Barium	"	76.9	---	6.06	"	"	66.7	--	--	--	14.1%	"	"	
Cadmium	"	ND	---	0.606	"	"	ND	--	--	--	19.2%	"	"	
Selenium	"	ND	---	1.21	"	"	ND	--	--	--	NR	"	"	

Matrix Spike (9F01042-MS1)

QC Source: BSF0014-01

Extracted: 06/01/09 16:34

Chromium	EPA 6020	84.5	---	0.606	mg/kg dry	1x	38.1	48.5	95.8%	(75-125)	--	--	06/02/09 08:45	
Silver	"	43.0	---	0.606	"	"	ND	"	88.8%	"	--	--	"	
Barium	"	125	---	6.06	"	"	66.7	"	120%	"	--	--	"	
Cadmium	"	48.3	---	0.606	"	"	0.150	"	99.3%	"	--	--	"	
Arsenic	"	48.8	---	0.606	"	"	2.73	"	95.2%	"	--	--	"	
Lead	"	54.1	---	0.606	"	"	4.50	"	102%	"	--	--	"	
Selenium	"	49.2	---	1.21	"	"	ND	"	101%	"	--	--	"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/02/09 16:47
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01042	Soil Preparation Method: EPA 3050B
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Post Spike (9F01042-PS1)			QC Source: BSF0014-01				Extracted: 06/01/09 16:34								
Arsenic	EPA 6020	0.112	---		ug/ml	1x	0.00456	0.100	108%	(80-120)	--	--	06/02/09 08:39		
Lead	"	0.115	---		"	"	0.00751	"	107%	"	--	--	"		
Chromium	"	0.174	---		"	"	0.0635	"	111%	"	--	--	"		
Cadmium	"	0.111	---		"	"	0.000250	"	111%	"	--	--	"		
Barium	"	0.214	---		"	"	0.111	"	103%	"	--	--	"		
Selenium	"	0.112	---		"	"	0.000220	"	112%	"	--	--	"		
Silver	"	0.100	---		"	"	0.0000300	"	100%	"	--	--	"		

QC Batch: 9F02017	Soil Preparation Method: EPA 7471A
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9F02017-BLK1)							Extracted: 06/02/09 12:37								
Mercury	EPA 7471A	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	06/02/09 13:18		
LCS (9F02017-BS1)							Extracted: 06/02/09 12:37								
Mercury	EPA 7471A	0.628	---	0.0997	mg/kg wet	1x	--	0.665	94.4%	(80-120)	--	--	06/02/09 13:20		
LCS Dup (9F02017-BSD1)							Extracted: 06/02/09 12:37								
Mercury	EPA 7471A	0.628	---	0.0996	mg/kg wet	1x	--	0.664	94.6%	(80-120)	0.130% (20)		06/02/09 13:23		
Matrix Spike (9F02017-MS1)			QC Source: BSF0007-01				Extracted: 06/02/09 12:37								
Mercury	EPA 7471A	0.681	---	0.0943	mg/kg wet	1x	0.0727	0.629	96.8%	(80-125)	--	--	06/02/09 13:25		
Matrix Spike Dup (9F02017-MSD1)			QC Source: BSF0007-01				Extracted: 06/02/09 12:37								
Mercury	EPA 7471A	0.722	---	0.0931	mg/kg wet	1x	0.0727	0.621	105%	(80-125)	5.79% (30)		06/02/09 13:28		

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Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/02/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9F01018

Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F01018-BLK1)													Extracted: 06/01/09 15:07	
Acetone	EPA 8260B	ND	---	40.0	ug/kg wet	1x	--	--	--	--	--	--	06/01/09 18:05	
Benzene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Chloromethane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane (EDB)	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Dichlorodifluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	3.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	1.25	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	4.00	"	"	--	--	--	--	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	06/02/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01018 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F01018-BLK1)													Extracted: 06/01/09 15:07	
Hexachlorobutadiene	EPA 8260B	ND	---	10.0	ug/kg wet	1x	--	--	--	--	--	--	06/01/09 18:05	
Methyl tert-butyl ether	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
n-Hexane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	30.0	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	12.0	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
1,1,1,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	2.00	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	2.50	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	5.00	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>Recovery:</i>	<i>100%</i>	<i>Limits:</i>	<i>70-140%</i>	<i>"</i>							<i>06/01/09 18:05</i>	
	<i>Toluene-d8</i>		<i>92.9%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	
	<i>4-BFB</i>		<i>92.8%</i>		<i>70-130%</i>	<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 06/02/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01018 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (9F01018-BS1)													Extracted: 06/01/09 15:07	
Acetone	EPA 8260B	554	---	40.0	ug/kg wet	1x	--	500	111%	(60-140)	--	--	06/01/09 17:13	
Benzene	"	54.9	---	1.50	"	"	--	50.0	110%	(70-125)	--	--	"	
2-Butanone	"	533	---	30.0	"	"	--	500	107%	(60-140)	--	--	"	
Carbon disulfide	"	52.8	---	3.00	"	"	--	50.0	106%	(70-130)	--	--	"	
Chlorobenzene	"	46.5	---	2.00	"	"	--	"	93.1%	(70-125)	--	--	"	
1,1-Dichloroethane	"	49.7	---	2.00	"	"	--	"	99.5%	(75-125)	--	--	"	
1,1-Dichloroethene	"	45.5	---	3.00	"	"	--	"	90.9%	(70-130)	--	--	"	
cis-1,2-Dichloroethene	"	53.0	---	3.00	"	"	--	"	106%	(75-125)	--	--	"	
Ethylbenzene	"	45.0	---	4.00	"	"	--	"	89.9%	(70-125)	--	--	"	
Hexachlorobutadiene	"	37.3	---	10.0	"	"	--	"	74.5%	(70-130)	--	--	"	
4-Methyl-2-pentanone	"	466	---	30.0	"	"	--	500	93.2%	(60-140)	--	--	"	
Tetrachloroethene	"	45.5	---	2.00	"	"	--	50.0	91.0%	(70-125)	--	--	"	
Toluene	"	47.3	---	1.50	"	"	--	"	94.7%	"	--	--	"	
1,1,1-Trichloroethane	"	43.1	---	2.50	"	"	--	"	86.2%	(70-130)	--	--	"	
Trichloroethene	"	44.8	---	2.50	"	"	--	"	89.6%	(70-125)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>81.2%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/01/09 17:13</i>	
<i>Toluene-d8</i>			<i>96.6%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>97.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9F01018-BSD1)

Extracted: 06/01/09 15:07

Acetone	EPA 8260B	565	---	40.0	ug/kg wet	1x	--	500	113%	(60-140)	1.82% (30)		06/01/09 17:39	
Benzene	"	56.5	---	1.50	"	"	--	50.0	113%	(70-125)	2.98%	"	"	
2-Butanone	"	543	---	30.0	"	"	--	500	109%	(60-140)	1.75%	"	"	
Carbon disulfide	"	55.3	---	3.00	"	"	--	50.0	111%	(70-130)	4.48%	"	"	
Chlorobenzene	"	47.7	---	2.00	"	"	--	"	95.4%	(70-125)	2.46%	"	"	
1,1-Dichloroethane	"	51.6	---	2.00	"	"	--	"	103%	(75-125)	3.61%	"	"	
1,1-Dichloroethene	"	47.6	---	3.00	"	"	--	"	95.1%	(70-130)	4.49%	"	"	
cis-1,2-Dichloroethene	"	54.6	---	3.00	"	"	--	"	109%	(75-125)	3.08%	"	"	
Ethylbenzene	"	46.8	---	4.00	"	"	--	"	93.5%	(70-125)	3.93%	"	"	
Hexachlorobutadiene	"	44.0	---	10.0	"	"	--	"	87.9%	(70-130)	16.4%	"	"	
4-Methyl-2-pentanone	"	482	---	30.0	"	"	--	500	96.4%	(60-140)	3.32%	"	"	
Tetrachloroethene	"	47.0	---	2.00	"	"	--	50.0	93.9%	(70-125)	3.14%	"	"	
Toluene	"	48.9	---	1.50	"	"	--	"	97.7%	"	3.16%	"	"	
1,1,1-Trichloroethane	"	45.6	---	2.50	"	"	--	"	91.1%	(70-130)	5.59%	"	"	
Trichloroethene	"	46.2	---	2.50	"	"	--	"	92.4%	(70-125)	2.99%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>81.2%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/01/09 17:39</i>	
<i>Toluene-d8</i>			<i>97.0%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>97.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation	Project Name: WMCP Phase 2 - Fill	Report Created:
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	06/02/09 16:47
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01019 **Soil Preparation Method: EPA 3550B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F01019-BLK2)													Extracted: 06/01/09 12:19			
Acenaphthene	8270C-SIM	ND	---	0.0100	mg/kg wet	1x	--	--	--	--	--	--	06/01/09 17:40			
Acenaphthylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (a) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (b) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (k) fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Benzo (ghi) perylene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Chrysene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Dibenz (a,h) anthracene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluoranthene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Fluorene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
1-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
2-Methylnaphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Phenanthrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Pyrene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): p-Terphenyl-d14</i>													<i>Recovery: 89.4%</i>	<i>Limits: 46-125%</i>	<i>"</i>	<i>06/01/09 17:40</i>

LCS (9F01019-BS2)													Extracted: 06/01/09 12:19	
Acenaphthene	8270C-SIM	0.663	---	0.0100	mg/kg wet	1x	--	0.667	99.4%	(65-130)	--	--	06/01/09 18:33	
Acenaphthylene	"	0.759	---	0.0100	"	"	--	"	114%	(67-142)	--	--	"	
Anthracene	"	0.759	---	0.0100	"	"	--	"	114%	(55-149)	--	--	"	
Benzo (a) anthracene	"	0.670	---	0.0100	"	"	--	"	100%	(58-149)	--	--	"	
Benzo (a) pyrene	"	0.732	---	0.0100	"	"	--	"	110%	(56-149)	--	--	"	
Benzo (b) fluoranthene	"	0.797	---	0.0100	"	"	--	"	120%	(70-149)	--	--	"	
Benzo (k) fluoranthene	"	0.754	---	0.0100	"	"	--	"	113%	(55-149)	--	--	"	
Benzo (ghi) perylene	"	0.724	---	0.0100	"	"	--	"	109%	"	--	--	"	
Chrysene	"	0.756	---	0.0100	"	"	--	"	113%	(65-145)	--	--	"	
Dibenz (a,h) anthracene	"	0.698	---	0.0100	"	"	--	"	105%	(56-149)	--	--	"	
Fluoranthene	"	0.778	---	0.0100	"	"	--	"	117%	(72-145)	--	--	"	
Fluorene	"	0.740	---	0.0100	"	"	--	"	111%	(75-147)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.682	---	0.0100	"	"	--	"	102%	(54-149)	--	--	"	
1-Methylnaphthalene	"	0.523	---	0.0100	"	"	--	"	78.4%	(51-128)	--	--	"	
2-Methylnaphthalene	"	0.523	---	0.0100	"	"	--	"	78.5%	(56-124)	--	--	"	
Naphthalene	"	0.520	---	0.0100	"	"	--	"	78.0%	(56-146)	--	--	"	
Phenanthrene	"	0.658	---	0.0100	"	"	--	"	98.6%	(64-139)	--	--	"	
Pyrene	"	0.735	---	0.0100	"	"	--	"	110%	(58-149)	--	--	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 06/02/09 16:47

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01019 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

LCS (9F01019-BS2)

Extracted: 06/01/09 12:19

Surrogate(s): *p-Terphenyl-d14* Recovery: 75.0% Limits: 46-125% 1x 06/01/09 18:33

Matrix Spike (9F01019-MS2)

QC Source: BSF0001-03

Extracted: 06/01/09 12:19

Acenaphthene	8270C-SIM	0.699	---	0.0103	mg/kg dry	1x	ND	0.688	102%	(64-140)	--	--	06/01/09 20:17	
Acenaphthylene	"	0.800	---	0.0103	"	"	ND	"	116%	(66-150)	--	--	"	
Anthracene	"	0.787	---	0.0103	"	"	ND	"	114%	(54-150)	--	--	"	
Benzo (a) anthracene	"	0.696	---	0.0103	"	"	ND	"	101%	(57-150)	--	--	"	
Benzo (a) pyrene	"	0.754	---	0.0103	"	"	ND	"	109%	(55-150)	--	--	"	
Benzo (b) fluoranthene	"	0.785	---	0.0103	"	"	ND	"	114%	(54-150)	--	--	"	
Benzo (k) fluoranthene	"	0.762	---	0.0103	"	"	ND	"	111%	"	--	--	"	
Benzo (ghi) perylene	"	0.743	---	0.0103	"	"	ND	"	108%	"	--	--	"	
Chrysene	"	0.780	---	0.0103	"	"	ND	"	113%	(65-150)	--	--	"	
Dibenz (a,h) anthracene	"	0.720	---	0.0103	"	"	ND	"	105%	(55-150)	--	--	"	
Fluoranthene	"	0.808	---	0.0103	"	"	ND	"	117%	(70-150)	--	--	"	
Fluorene	"	0.770	---	0.0103	"	"	ND	"	112%	(74-150)	--	--	"	
Indeno (1,2,3-cd) pyrene	"	0.701	---	0.0103	"	"	ND	"	102%	(50-150)	--	--	"	
1-Methylnaphthalene	"	0.551	---	0.0103	"	"	ND	"	80.0%	(45-145)	--	--	"	
2-Methylnaphthalene	"	0.550	---	0.0103	"	"	ND	"	79.9%	(50-140)	--	--	"	
Naphthalene	"	0.550	---	0.0103	"	"	ND	"	79.9%	(47-147)	--	--	"	
Phenanthrene	"	0.669	---	0.0103	"	"	ND	"	97.3%	(56-150)	--	--	"	
Pyrene	"	0.773	---	0.0103	"	"	ND	"	112%	(57-150)	--	--	"	

Surrogate(s): *p-Terphenyl-d14* Recovery: 75.4% Limits: 46-125% " 06/01/09 20:17

Matrix Spike Dup (9F01019-MSD2)

QC Source: BSF0001-03

Extracted: 06/01/09 12:19

Acenaphthene	8270C-SIM	0.661	---	0.0102	mg/kg dry	1x	ND	0.677	97.6%	(64-140)	5.65% (41)		06/01/09 20:43	
Acenaphthylene	"	0.767	---	0.0102	"	"	ND	"	113%	(66-150)	4.23%	"	"	
Anthracene	"	0.765	---	0.0102	"	"	ND	"	113%	(54-150)	2.85%	"	"	
Benzo (a) anthracene	"	0.674	---	0.0102	"	"	ND	"	99.6%	(57-150)	3.11%	"	"	
Benzo (a) pyrene	"	0.722	---	0.0102	"	"	ND	"	107%	(55-150)	4.22% (35)	"	"	
Benzo (b) fluoranthene	"	0.828	---	0.0102	"	"	ND	"	122%	(54-150)	5.31% (41)	"	"	
Benzo (k) fluoranthene	"	0.732	---	0.0102	"	"	ND	"	108%	"	4.01%	"	"	
Benzo (ghi) perylene	"	0.719	---	0.0102	"	"	ND	"	106%	"	3.21%	"	"	
Chrysene	"	0.755	---	0.0102	"	"	ND	"	112%	(65-150)	3.20% (40)	"	"	
Dibenz (a,h) anthracene	"	0.695	---	0.0102	"	"	ND	"	103%	(55-150)	3.47% (41)	"	"	
Fluoranthene	"	0.779	---	0.0102	"	"	ND	"	115%	(70-150)	3.63%	"	"	
Fluorene	"	0.742	---	0.0102	"	"	ND	"	110%	(74-150)	3.73% (44)	"	"	
Indeno (1,2,3-cd) pyrene	"	0.677	---	0.0102	"	"	ND	"	100%	(50-150)	3.48%	"	"	
1-Methylnaphthalene	"	0.532	---	0.0102	"	"	ND	"	78.6%	(45-145)	3.48% (41)	"	"	
2-Methylnaphthalene	"	0.531	---	0.0102	"	"	ND	"	78.4%	(50-140)	3.50%	"	"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/02/09 16:47
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Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01019 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9F01019-MSD2)			QC Source: BSF0001-03				Extracted: 06/01/09 12:19							
Naphthalene	8270C-SIM	0.532	---	0.0102	mg/kg dry	1x	ND	0.677	78.5%	(47-147)	3.34%	(41)	06/01/09 20:43	
Phenanthrene	"	0.647	---	0.0102	"	"	ND	"	95.6%	(56-150)	3.34%	"	"	
Pyrene	"	0.737	---	0.0102	"	"	ND	"	109%	(57-150)	4.74%	"	"	
Surrogate(s): <i>p-Terphenyl-d14</i>		Recovery: 72.7%		Limits: 46-125%		"		06/01/09 20:43						

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	06/02/09 16:47
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F01043 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F01043-BLK1)										Extracted: 06/01/09 16:36				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/02/09 00:00	

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/02/09 16:47

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
8270C-SIM	Soil		X
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 7471A	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/02/09 16:47

Notes and Definitions

Report Specific Notes:

- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



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TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: (applies to temp at receipt) **Logged-in By:** **Unpacked/ Labeled by:** **Label Review by:** **Cooler ID:** _____
 Date: 6/1 Date: 6/1 Date: 6/1/09 Date: 6/1/09 Work Order No. BSF0015
 Time: 1515 Time: 1558 Time: 1600 Time: 1616 Client: _____
 Initials: TB Initials: TB Initials: DT Initials: TB Project: _____

Container Type: Cooler _____ **COC Seals:** _____ **Packing Material:** _____
 _____ Box _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ None/Other _____ On Bottles _____ Date _____ Foam Packs
 _____ None _____ _____ None/Other _____

Refrigerant: Gel Ice Pack _____ **Soil Stir Bars/Encores:** _____ **Received Via: Bill#:** _____
 _____ Loose Ice _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ None/Other _____ Y or N or NA _____ UPS TA Courier
 _____ Initial/date/time _____ _____ DHL _____ Mid Valley
 _____ Senvoy _____ TDP
 _____ GS _____ Other _____

Cooler Temperature (IR): 4.2°C Plastic Glass (circle one) (Frozen filters, Tedlars and aqueous Metals exempt)
 Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: **ID** **ID**
 Intact? Y or N _____ Metals Preserved? Y or N or NA
 Provided by TA? Y or N _____ Client QAPP Preserved? Y or N or NA
 Correct Type? Y or N _____ Adequate Volume? Y or N _____
 (for tests requested)
 #Containers match COC? Y or N _____ Water VOAs: Headspace? Y or N or NA
 IDs/time/date match COC? Y or N _____ Comments: _____
 Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete
 Comments, Problems _____

Total access set up? _____ Y or N

June 03, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/02/09 16:15.
The following list is a summary of the Work Orders contained in this report, generated on 06/03/09
17:06.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0023	WMCP Phase 2	33759381

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/03/09 17:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA2-I2-14	BSF0023-01	Soil	06/02/09 08:40	06/02/09 16:15
AREA2-H2-14	BSF0023-02	Soil	06/02/09 08:50	06/02/09 16:15
AREA2-G2-14	BSF0023-03	Soil	06/02/09 09:00	06/02/09 16:15
AREA2-F2-14	BSF0023-04	Soil	06/02/09 10:00	06/02/09 16:15

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/03/09 17:06

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0023-01 (AREA2-I2-14)		Soil		Sampled: 06/02/09 08:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.69	6.04	mg/kg dry	1x	9F02032	06/02/09 18:27	06/02/09 19:25	M1
Surrogate(s): 4-BFB (FID)			114%		75 - 140 %	"			"	
BSF0023-02 (AREA2-H2-14)		Soil		Sampled: 06/02/09 08:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.54	5.50	mg/kg dry	1x	9F02032	06/02/09 18:27	06/02/09 20:32	
Surrogate(s): 4-BFB (FID)			122%		75 - 140 %	"			"	
BSF0023-03 (AREA2-G2-14)		Soil		Sampled: 06/02/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.32	2.00	7.13	mg/kg dry	1x	9F02032	06/02/09 18:27	06/02/09 21:05	J
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	"			"	
BSF0023-04 (AREA2-F2-14)		Soil		Sampled: 06/02/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	3.02	1.90	6.77	mg/kg dry	1x	9F02032	06/02/09 18:27	06/02/09 21:39	J
Surrogate(s): 4-BFB (FID)			115%		75 - 140 %	"			"	

TestAmerica Seattle



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/03/09 17:06
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0023-01 (AREA2-I2-14)		Soil		Sampled: 06/02/09 08:40						
Lube Oil	NWTPH-Dx	ND	----	31.9	mg/kg dry	1x	9F02029	06/02/09 17:23	06/02/09 21:13	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			77.4%		54 - 148 %	"				"
<i>Octacosane</i>			89.8%		62 - 142 %	"				"
BSF0023-02 (AREA2-H2-14)		Soil		Sampled: 06/02/09 08:50						
Lube Oil	NWTPH-Dx	ND	----	32.6	mg/kg dry	1x	9F02029	06/02/09 17:23	06/02/09 21:37	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.7%		54 - 148 %	"				"
<i>Octacosane</i>			103%		62 - 142 %	"				"
BSF0023-03 (AREA2-G2-14)		Soil		Sampled: 06/02/09 09:00						
Lube Oil	NWTPH-Dx	41.1	----	34.8	mg/kg dry	1x	9F02029	06/02/09 17:23	06/02/09 22:02	
Kerosene	"	ND	----	13.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.0%		54 - 148 %	"				"
<i>Octacosane</i>			96.4%		62 - 142 %	"				"
BSF0023-04 (AREA2-F2-14)		Soil		Sampled: 06/02/09 10:00						
Lube Oil	NWTPH-Dx	ND	----	32.3	mg/kg dry	1x	9F02029	06/02/09 17:23	06/02/09 22:26	
Kerosene	"	ND	----	12.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			79.8%		54 - 148 %	"				"
<i>Octacosane</i>			97.4%		62 - 142 %	"				"

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/03/09 17:06

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0023-01 (AREA2-I2-14)		Soil		Sampled: 06/02/09 08:40						
Lead	EPA 6020	2.57	----	0.475	mg/kg dry	1x	9F02035	06/02/09 20:35	06/03/09 11:42	
BSF0023-02 (AREA2-H2-14)		Soil		Sampled: 06/02/09 08:50						
Lead	EPA 6020	6.59	----	0.615	mg/kg dry	1x	9F02035	06/02/09 20:35	06/03/09 11:48	
BSF0023-03 (AREA2-G2-14)		Soil		Sampled: 06/02/09 09:00						
Lead	EPA 6020	163	----	0.662	mg/kg dry	1x	9F02035	06/02/09 20:35	06/03/09 11:54	
BSF0023-04 (AREA2-F2-14)		Soil		Sampled: 06/02/09 10:00						
Lead	EPA 6020	3.41	----	0.583	mg/kg dry	1x	9F02035	06/02/09 20:35	06/03/09 12:01	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/03/09 17:06

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSF0023-01 (AREA2-I2-14)		Soil		Sampled: 06/02/09 08:40							P13
Benzene	EPA 8260B	ND	----	0.000850	mg/kg dry	1x	9F02013	06/02/09 17:00	06/02/09 18:09		
Ethylbenzene	"	ND	----	0.00227	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000567	"	"	"	"	"		
Naphthalene	"	ND	----	0.00567	"	"	"	"	"		
Toluene	"	ND	----	0.000850	"	"	"	"	"		
o-Xylene	"	ND	----	0.00283	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00283	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00567	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				99.5%		70 - 140 %	"			"	
<i>Toluene-d8</i>				94.6%		70 - 130 %	"			"	
<i>4-BFB</i>				96.1%		70 - 130 %	"			"	
BSF0023-02 (AREA2-H2-14)		Soil		Sampled: 06/02/09 08:50							P13
Benzene	EPA 8260B	ND	----	0.000894	mg/kg dry	1x	9F02013	06/02/09 17:00	06/02/09 18:35		
Ethylbenzene	"	ND	----	0.00238	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000596	"	"	"	"	"		
Naphthalene	"	ND	----	0.00596	"	"	"	"	"		
Toluene	"	ND	----	0.000894	"	"	"	"	"		
o-Xylene	"	ND	----	0.00298	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00298	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00596	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				102%		70 - 140 %	"			"	
<i>Toluene-d8</i>				95.1%		70 - 130 %	"			"	
<i>4-BFB</i>				96.1%		70 - 130 %	"			"	
BSF0023-03 (AREA2-G2-14)		Soil		Sampled: 06/02/09 09:00							P13
Benzene	EPA 8260B	0.0876	----	0.000916	mg/kg dry	1x	9F02013	06/02/09 17:00	06/02/09 19:01		
Ethylbenzene	"	0.00387	----	0.00244	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000610	"	"	"	"	"		
Naphthalene	"	ND	----	0.00610	"	"	"	"	"		
Toluene	"	ND	----	0.000916	"	"	"	"	"		
o-Xylene	"	ND	----	0.00305	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00305	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00610	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				99.8%		70 - 140 %	"			"	
<i>Toluene-d8</i>				104%		70 - 130 %	"			"	
<i>4-BFB</i>				110%		70 - 130 %	"			"	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/03/09 17:06

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0023-04 (AREA2-F2-14)										
			Soil				Sampled: 06/02/09 10:00			P13
Benzene	EPA 8260B	0.00854	----	0.000513	mg/kg dry	1x	9F02013	06/02/09 17:00	06/02/09 19:26	
Ethylbenzene	"	0.0101	----	0.00137	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000342	"	"	"	"	"	
Naphthalene	"	ND	----	0.00342	"	"	"	"	"	
Toluene	"	0.00544	----	0.000513	"	"	"	"	"	
o-Xylene	"	0.00707	----	0.00171	"	"	"	"	"	
m,p-Xylene	"	0.0212	----	0.00171	"	"	"	"	"	
Total Xylenes	"	0.0283	----	0.00342	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>104%</i>		<i>70 - 140 %</i>	"			"
	<i>Toluene-d8</i>			<i>94.4%</i>		<i>70 - 130 %</i>	"			"
	<i>4-BFB</i>			<i>97.0%</i>		<i>70 - 130 %</i>	"			"

TestAmerica Seattle



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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/03/09 17:06

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0023-01 (AREA2-I2-14)										Soil
										Sampled: 06/02/09 08:40
Dry Weight	BSOPSP003R0 8	77.9	----	1.00	%	1x	9F02034	06/02/09 19:05	06/03/09 00:00	
BSF0023-02 (AREA2-H2-14)										Soil
										Sampled: 06/02/09 08:50
Dry Weight	BSOPSP003R0 8	76.7	----	1.00	%	1x	9F02034	06/02/09 19:05	06/03/09 00:00	
BSF0023-03 (AREA2-G2-14)										Soil
										Sampled: 06/02/09 09:00
Dry Weight	BSOPSP003R0 8	70.6	----	1.00	%	1x	9F02034	06/02/09 19:05	06/03/09 00:00	
BSF0023-04 (AREA2-F2-14)										Soil
										Sampled: 06/02/09 10:00
Dry Weight	BSOPSP003R0 8	77.2	----	1.00	%	1x	9F02034	06/02/09 19:05	06/03/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/03/09 17:06
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F02032 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F02032-BLK1)										Extracted: 06/02/09 15:27				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/02/09 18:11	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 81.5%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/02/09 18:11</i>
LCS (9F02032-BS1)										Extracted: 06/02/09 15:27				
Gasoline Range Hydrocarbons	NWTPH-Gx	51.9	1.40	5.00	mg/kg wet	1x	--	50.0	104%	(80-120)	--	--	06/02/09 18:52	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/02/09 18:52</i>
Duplicate (9F02032-DUP1)										QC Source: BSF0023-01		Extracted: 06/02/09 18:27		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.69	6.04	mg/kg dry	1x	ND	--	--	--	NR (40)		06/02/09 19:59	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 115%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/02/09 19:59</i>
Matrix Spike (9F02032-MS1)										QC Source: BSF0023-01		Extracted: 06/02/09 18:27		
Gasoline Range Hydrocarbons	NWTPH-Gx	67.3	1.69	6.04	mg/kg dry	1x	ND	46.2	146%	(75-130)	--	--	06/02/09 22:12	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 128%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/02/09 22:12</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/03/09 17:06
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F02029 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F02029-BLK1)

Extracted: 06/02/09 17:23

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/02/09 19:36	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/02/09 19:36</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>97.2%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9F02029-BS1)

Extracted: 06/02/09 17:23

Lube Oil	NWTPH-Dx	56.1	---	25.0	mg/kg wet	1x	--	66.7	84.1%	(63-125)	--	--	06/02/09 20:00	
Diesel Range Hydrocarbons	"	64.1	---	10.0	"	"	--	"	96.2%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>92.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/02/09 20:00</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>98.6%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9F02029-DUP1)

QC Source: BSF0023-01

Extracted: 06/02/09 17:23

Lube Oil	NWTPH-Dx	ND	---	32.1	mg/kg dry	1x	ND	--	--	--	18.2%	(50)	06/02/09 20:25	
Kerosene	"	ND	---	12.8	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.8	"	"	ND	--	--	--	NR	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>84.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/02/09 20:25</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>99.3%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9F02029-MS1)

QC Source: BSF0023-01

Extracted: 06/02/09 17:23

Lube Oil	NWTPH-Dx	72.1	---	32.1	mg/kg dry	1x	9.95	85.6	72.7%	(26-150)	--	--	06/02/09 20:49	
Diesel Range Hydrocarbons	"	74.1	---	12.8	"	"	ND	"	86.6%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>84.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/02/09 20:49</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>97.0%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/03/09 17:06
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F02035 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F02035-BLK1)								Extracted: 06/02/09 20:35						
Lead	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	06/03/09 10:51	
LCS (9F02035-BS1)								Extracted: 06/02/09 20:35						
Lead	EPA 6020	37.6	---	0.505	mg/kg wet	1x	--	40.4	92.9%	(80-120)	--	--	06/03/09 10:58	
Duplicate (9F02035-DUP1)				QC Source: BSF0023-04				Extracted: 06/02/09 20:35						
Lead	EPA 6020	3.39	---	0.573	mg/kg dry	1x	3.41	--	--	--	0.594% (20)	--	06/03/09 11:10	
Matrix Spike (9F02035-MS1)				QC Source: BSF0023-04				Extracted: 06/02/09 20:35						
Lead	EPA 6020	47.0	---	0.600	mg/kg dry	1x	3.41	48.0	90.9%	(75-125)	--	--	06/03/09 11:04	
Post Spike (9F02035-PS1)				QC Source: BSF0023-04				Extracted: 06/02/09 20:35						
Lead	EPA 6020	0.0989	---		ug/ml	1x	0.00584	0.100	93.0%	(80-120)	--	--	06/03/09 11:36	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/03/09 17:06
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F02013 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F02013-BLK1)													Extracted: 06/02/09 12:41			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/02/09 17:43			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 95.2%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/02/09 17:43</i>
<i>Toluene-d8</i>													<i>94.5%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.0%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9F02013-BS1)													Extracted: 06/02/09 12:41			
Benzene	EPA 8260B	0.0595	---	0.00150	mg/kg wet	1x	--	0.0500	119%	(70-125)	--	--	06/02/09 16:52			
Ethylbenzene	"	0.0483	---	0.00400	"	"	--	"	96.7%	"	--	--	"			
Methyl tert-butyl ether	"	0.0528	---	0.00100	"	"	--	"	106%	(70-130)	--	--	"			
Naphthalene	"	0.0564	---	0.0100	"	"	--	"	113%	"	--	--	"			
Toluene	"	0.0512	---	0.00150	"	"	--	"	102%	(70-125)	--	--	"			
Total Xylenes	"	0.142	---	0.0100	"	"	--	0.150	94.8%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 84.4%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/02/09 16:52</i>
<i>Toluene-d8</i>													<i>99.2%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>96.0%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9F02013-BSD1)													Extracted: 06/02/09 12:41			
Benzene	EPA 8260B	0.0542	---	0.00150	mg/kg wet	1x	--	0.0500	108%	(70-125)	9.29% (30)		06/02/09 17:17			
Ethylbenzene	"	0.0454	---	0.00400	"	"	--	"	90.7%	"	6.36%	"	"			
Methyl tert-butyl ether	"	0.0483	---	0.00100	"	"	--	"	96.5%	(70-130)	8.91%	"	"			
Naphthalene	"	0.0539	---	0.0100	"	"	--	"	108%	"	4.50%	"	"			
Toluene	"	0.0476	---	0.00150	"	"	--	"	95.2%	(70-125)	7.21%	"	"			
Total Xylenes	"	0.134	---	0.0100	"	"	--	0.150	89.1%	(70-130)	6.18%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 83.0%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/02/09 17:17</i>
<i>Toluene-d8</i>													<i>97.8%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>96.3%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/03/09 17:06
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F02034 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F02034-BLK1)

Extracted: 06/02/09 19:05

Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/03/09 00:00	
------------	-------------------	-----	-----	------	---	----	----	----	----	----	----	----	----------------	--

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/03/09 17:06

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/03/09 17:06

Notes and Definitions

Report Specific Notes:

- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302
 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSF0023**

CLIENT: Conoco Phillips		INVOICE TO: CP		TURNAROUND REQUEST									
REPORT TO: WMCJ Staff		ADDRESS:		in Business Days *									
PHONE:		FAX:		Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses									
PROJECT NAME: WMCJ Phase II		PRESERVATIVE:		10 STD. 7 5 4 3 2 1 <1 5 4 3 2 1 <1									
PROJECT NUMBER:		P.O. NUMBER:		OTHER Specify: 24-hr									
SAMPLED BY: Matthew McKibbin		REQUESTED ANALYSES:		* Turnaround Requests less than standard may incur Rush Charges.									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	LEAD	NUPTH	DX (w/Activ. Slides CW)	(w/Inert. Slides CW)	8260B	NUPTH	EX	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID	
1 Area 1-F2-14	6-2-09 / 0840	X	X	X	X	X	X	X	S	4	Silty Sand	-01	
2 " -H2-14	" / 0850	X	X	X	X	X	X	X	S	4	PIP=6.2 Silty Sand	-02	
3 " -G2-14	" / 0900	X	X	X	X	X	X	X	S	4	Silty Oppm	-03	
4 " -F2-14	" / 1000	X	X	X	X	X	X	X	S	4	Silty Sand w/trace wood Oppm	-04	
5													
6													
7													
8													
9													
10													
RELEASED BY: Matt Allen		DATE: 6-2-09		RECEIVED BY: Francisco Luns Jr.		DATE: 6/2/09		FIRM: WAS		FIRM: TH-SE/H		DATE: 6/2/09	
PRINT NAME: Matthew McKibbin		TIME: 1430		PRINT NAME:		TIME: 1515		FIRM:		FIRM:		TIME:	
PRINT NAME:		DATE:		PRINT NAME:		DATE:		FIRM:		FIRM:		TIME:	
PRINT NAME:		DATE:		PRINT NAME:		DATE:		FIRM:		FIRM:		TEMP: 4.1°C	
ADDITIONAL REMARKS:				REMARKS: w/o				FIRM: @Lab 1615		FIRM:		PAGE 1 OF 1	

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 6/2/09 Date: 6/2/09 Date: 6/2/09 Date: _____ Work Order No. BSF0023
 Time: 1615 Time: 1657 Time: 1706 Time: _____ Client: _____
 Initials: FL Initials: FL Initials: FL Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 Box _____ On Bottles _____ Date _____ Foam Packs
 None/Other _____ None FL None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client _____
 Loose Ice _____ Y or N or NA _____ UPS TA Courier
 None/Other _____ Initial/date/time _____ DHL _____ Mid Valley _____
 _____ Senvoy _____ TDP _____
 _____ GS _____ Other _____

Cooler Temperature (IR): 4.1 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="checkbox"/> or N _____	Metals Preserved? Y or N or <u>NA</u> _____	
Provided by TA? <input checked="" type="checkbox"/> or N _____	Client QAPP Preserved? Y or N or <u>NA</u> _____	
Correct Type? <input checked="" type="checkbox"/> or N _____	Adequate Volume? <input checked="" type="checkbox"/> or N _____	
#Containers match COC? <input checked="" type="checkbox"/> or N _____	(for tests requested) Water VOAs: Headspace? Y or N or <u>NA</u> _____	
IDs/time/date match COC? Y or N _____	Comments: _____	
Hold Times in hold? <input checked="" type="checkbox"/> or N _____		

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

June 04, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/03/09 17:10.
The following list is a summary of the Work Orders contained in this report, generated on 06/04/09
17:09.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0033	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/04/09 17:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-J5-9	BSF0033-01	Soil	06/03/09 11:10	06/03/09 17:10
AREA2-K1-14	BSF0033-02	Soil	06/03/09 13:00	06/03/09 17:10
AREA2-K1-11.5	BSF0033-03	Soil	06/03/09 13:05	06/03/09 17:10
AREA2-K2-14	BSF0033-04	Soil	06/03/09 13:10	06/03/09 17:10
AREA2-K2-12	BSF0033-05	Soil	06/03/09 13:15	06/03/09 17:10
AREA2-K3-14	BSF0033-06	Soil	06/03/09 13:20	06/03/09 17:10
AREA2-K3-12	BSF0033-07	Soil	06/03/09 13:25	06/03/09 17:10
AREA2-K4-14	BSF0033-08	Soil	06/03/09 13:30	06/03/09 17:10
AREA2-K4-12	BSF0033-09	Soil	06/03/09 13:35	06/03/09 17:10
DUP-17	BSF0033-10	Soil	06/03/09 13:40	06/03/09 17:10
AREA2-I1-14	BSF0033-11	Soil	06/03/09 14:00	06/03/09 17:10
AREA2-I1-11	BSF0033-12	Soil	06/03/09 14:10	06/03/09 17:10
AREA2-J1-14	BSF0033-13	Soil	06/03/09 14:20	06/03/09 17:10

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/04/09 17:09
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-01 (AREA1-J5-9)		Soil		Sampled: 06/03/09 11:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.83	6.52	mg/kg dry	1x	9F03026	06/03/09 16:24	06/03/09 21:05	M1
Surrogate(s): 4-BFB (FID)			106%		75 - 140 %					
BSF0033-02 (AREA2-K1-14)		Soil		Sampled: 06/03/09 13:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	26.4	1.83	6.55	mg/kg dry	1x	9F03026	06/03/09 16:24	06/03/09 23:15	
Surrogate(s): 4-BFB (FID)			121%		75 - 140 %					
BSF0033-03 (AREA2-K1-11.5)		Soil		Sampled: 06/03/09 13:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.83	6.55	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 02:30	
Surrogate(s): 4-BFB (FID)			108%		75 - 140 %					
BSF0033-04 (AREA2-K2-14)		Soil		Sampled: 06/03/09 13:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	9.63	2.49	8.90	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 03:03	
Surrogate(s): 4-BFB (FID)			106%		75 - 140 %					
BSF0033-05 (AREA2-K2-12)		Soil		Sampled: 06/03/09 13:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.58	5.64	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 03:35	
Surrogate(s): 4-BFB (FID)			108%		75 - 140 %					
BSF0033-06 (AREA2-K3-14)		Soil		Sampled: 06/03/09 13:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.15	7.68	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 04:08	
Surrogate(s): 4-BFB (FID)			115%		75 - 140 %					
BSF0033-07 (AREA2-K3-12)		Soil		Sampled: 06/03/09 13:25						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.78	6.37	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 04:41	
Surrogate(s): 4-BFB (FID)			110%		75 - 140 %					
BSF0033-08 (AREA2-K4-14)		Soil		Sampled: 06/03/09 13:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.50	5.35	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 05:13	
Surrogate(s): 4-BFB (FID)			110%		75 - 140 %					

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/04/09 17:09
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-09 (AREA2-K4-12)		Soil		Sampled: 06/03/09 13:35						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.86	6.65	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 05:46	
Surrogate(s): 4-BFB (FID)			112%		75 - 140 %	"				"
BSF0033-10 (DUP-17)		Soil		Sampled: 06/03/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	148	1.91	6.83	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 06:18	
Surrogate(s): 4-BFB (FID)			122%		75 - 140 %	"				"
BSF0033-11 (AREA2-I1-14)		Soil		Sampled: 06/03/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	184	1.81	6.47	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 06:51	
Surrogate(s): 4-BFB (FID)			132%		75 - 140 %	"				"
BSF0033-12 (AREA2-I1-11)		Soil		Sampled: 06/03/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.40	1.99	7.11	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 07:23	J
Surrogate(s): 4-BFB (FID)			102%		75 - 140 %	"				"
BSF0033-13 (AREA2-J1-14)		Soil		Sampled: 06/03/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	10.8	1.68	6.00	mg/kg dry	1x	9F03026	06/03/09 16:24	06/04/09 09:33	
Surrogate(s): 4-BFB (FID)			105%		75 - 140 %	"				"

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Kate Haney, Project Manager

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-01 (AREA1-J5-9)		Soil			Sampled: 06/03/09 11:10					
Lube Oil	NWTPH-Dx	ND	----	30.7	mg/kg dry	1x	9F03035	06/03/09 18:05	06/03/09 22:21	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.6%		54 - 148 %	"				"
<i>Octacosane</i>			99.4%		62 - 142 %	"				"
BSF0033-02 (AREA2-K1-14)		Soil			Sampled: 06/03/09 13:00					
Lube Oil	NWTPH-Dx	ND	----	31.9	mg/kg dry	1x	9F03035	06/03/09 18:05	06/03/09 22:44	
Kerosene	"	ND	----	12.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			82.2%		54 - 148 %	"				"
<i>Octacosane</i>			100%		62 - 142 %	"				"
BSF0033-03 (AREA2-K1-11.5)		Soil			Sampled: 06/03/09 13:05					
Lube Oil	NWTPH-Dx	ND	----	31.5	mg/kg dry	1x	9F03035	06/03/09 18:05	06/03/09 23:06	
Kerosene	"	ND	----	12.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.6%		54 - 148 %	"				"
<i>Octacosane</i>			94.2%		62 - 142 %	"				"
BSF0033-04 (AREA2-K2-14)		Soil			Sampled: 06/03/09 13:10					
Lube Oil	NWTPH-Dx	ND	----	31.4	mg/kg dry	1x	9F03035	06/03/09 18:05	06/03/09 23:28	
Kerosene	"	ND	----	12.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.5%		54 - 148 %	"				"
<i>Octacosane</i>			97.8%		62 - 142 %	"				"
BSF0033-05 (AREA2-K2-12)		Soil			Sampled: 06/03/09 13:15					
Lube Oil	NWTPH-Dx	ND	----	30.8	mg/kg dry	1x	9F03035	06/03/09 18:05	06/03/09 23:50	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.9%		54 - 148 %	"				"
<i>Octacosane</i>			92.2%		62 - 142 %	"				"

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/04/09 17:09
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-06 (AREA2-K3-14)		Soil			Sampled: 06/03/09 13:20					
Lube Oil	NWTPH-Dx	ND	----	35.0	mg/kg dry	1x	9F03035	06/03/09 18:05	06/04/09 01:42	
Kerosene	"	ND	----	14.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	14.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.8%		54 - 148 %	"				"
<i>Octacosane</i>			99.8%		62 - 142 %	"				"
BSF0033-07 (AREA2-K3-12)		Soil			Sampled: 06/03/09 13:25					
Lube Oil	NWTPH-Dx	ND	----	32.2	mg/kg dry	1x	9F03035	06/03/09 18:05	06/04/09 02:04	
Kerosene	"	ND	----	12.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			81.8%		54 - 148 %	"				"
<i>Octacosane</i>			96.7%		62 - 142 %	"				"
BSF0033-08 (AREA2-K4-14)		Soil			Sampled: 06/03/09 13:30					
Lube Oil	NWTPH-Dx	ND	----	30.7	mg/kg dry	1x	9F03035	06/03/09 18:05	06/04/09 02:26	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			78.8%		54 - 148 %	"				"
<i>Octacosane</i>			95.0%		62 - 142 %	"				"
BSF0033-09 (AREA2-K4-12)		Soil			Sampled: 06/03/09 13:35					
Lube Oil	NWTPH-Dx	ND	----	32.5	mg/kg dry	1x	9F03035	06/03/09 18:05	06/04/09 02:49	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			80.3%		54 - 148 %	"				"
<i>Octacosane</i>			93.3%		62 - 142 %	"				"
BSF0033-10 (DUP-17)		Soil			Sampled: 06/03/09 13:40					
Lube Oil	NWTPH-Dx	ND	----	30.2	mg/kg dry	1x	9F03035	06/03/09 18:05	06/04/09 03:11	
Kerosene	"	25.2	----	12.1	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	21.1	----	12.1	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>			84.5%		54 - 148 %	"				"
<i>Octacosane</i>			94.5%		62 - 142 %	"				"

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/04/09 17:09
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-11 (AREA2-I1-14)		Soil			Sampled: 06/03/09 14:00					
Lube Oil	NWTPH-Dx	32.4	----	30.3	mg/kg dry	1x	9F03035	06/03/09 18:05	06/04/09 03:33	Q1
Kerosene	"	33.2	----	12.1	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	23.9	----	12.1	"	"	"	"	"	Q1
<i>Surrogate(s): 2-FBP</i>			82.6%		54 - 148 %	"			"	
<i>Octacosane</i>			90.1%		62 - 142 %	"			"	
BSF0033-12 (AREA2-I1-11)		Soil			Sampled: 06/03/09 14:10					
Lube Oil	NWTPH-Dx	ND	----	31.6	mg/kg dry	1x	9F03035	06/03/09 18:05	06/04/09 03:55	
Kerosene	"	ND	----	12.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.1%		54 - 148 %	"			"	
<i>Octacosane</i>			94.9%		62 - 142 %	"			"	
BSF0033-13 (AREA2-J1-14)		Soil			Sampled: 06/03/09 14:20					
Lube Oil	NWTPH-Dx	ND	----	30.0	mg/kg dry	1x	9F03035	06/03/09 18:05	06/04/09 04:18	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			81.0%		54 - 148 %	"			"	
<i>Octacosane</i>			94.8%		62 - 142 %	"			"	

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/04/09 17:09

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-01	(AREA1-J5-9)	Soil		Sampled: 06/03/09 11:10						
Lead	EPA 6020	2.29	----	0.610	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 10:09	
BSF0033-02	(AREA2-K1-14)	Soil		Sampled: 06/03/09 13:00						
Lead	EPA 6020	5.91	----	0.626	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 10:15	
BSF0033-03	(AREA2-K1-11.5)	Soil		Sampled: 06/03/09 13:05						
Lead	EPA 6020	3.40	----	0.628	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 10:22	
BSF0033-04	(AREA2-K2-14)	Soil		Sampled: 06/03/09 13:10						
Lead	EPA 6020	4.00	----	0.577	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 10:47	
BSF0033-05	(AREA2-K2-12)	Soil		Sampled: 06/03/09 13:15						
Lead	EPA 6020	8.07	----	0.562	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 10:53	
BSF0033-06	(AREA2-K3-14)	Soil		Sampled: 06/03/09 13:20						
Lead	EPA 6020	4.53	----	0.697	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 10:59	
BSF0033-07	(AREA2-K3-12)	Soil		Sampled: 06/03/09 13:25						
Lead	EPA 6020	2.41	----	0.619	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 11:06	
BSF0033-08	(AREA2-K4-14)	Soil		Sampled: 06/03/09 13:30						
Lead	EPA 6020	3.09	----	0.621	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 11:12	
BSF0033-09	(AREA2-K4-12)	Soil		Sampled: 06/03/09 13:35						
Lead	EPA 6020	7.98	----	0.649	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 11:18	
BSF0033-10	(DUP-17)	Soil		Sampled: 06/03/09 13:40						
Lead	EPA 6020	7.10	----	0.586	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 11:24	
BSF0033-11	(AREA2-I1-14)	Soil		Sampled: 06/03/09 14:00						
Lead	EPA 6020	6.72	----	0.582	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 11:31	

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/04/09 17:09

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-12 (AREA2-I1-11)		Soil		Sampled: 06/03/09 14:10						
Lead	EPA 6020	11.0	----	0.581	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 11:37	
BSF0033-13 (AREA2-J1-14)		Soil		Sampled: 06/03/09 14:20						
Lead	EPA 6020	2.68	----	0.618	mg/kg dry	1x	9F03043	06/03/09 21:45	06/04/09 11:43	

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/04/09 17:09

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
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BSF0033-01 (AREA1-J5-9)

Soil

Sampled: 06/03/09 11:10

Benzene	EPA 8260B	ND	----	0.00111	mg/kg dry	1x	9F03013	06/03/09 15:15	06/03/09 19:30	
Ethylbenzene	"	ND	----	0.00296	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000740	"	"	"	"	"	
Naphthalene	"	ND	----	0.00740	"	"	"	"	"	
Toluene	"	ND	----	0.00111	"	"	"	"	"	
o-Xylene	"	ND	----	0.00370	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00370	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00740	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	96.2%		70 - 140 %	"					"
	Toluene-d8	97.3%		70 - 130 %	"					"
	4-BFB	104%		70 - 130 %	"					"

BSF0033-02 (AREA2-K1-14)

Soil

Sampled: 06/03/09 13:00

Benzene	EPA 8260B	0.0471	----	0.00102	mg/kg dry	1x	9F03013	06/03/09 15:15	06/03/09 19:56	
Methyl tert-butyl ether	"	ND	----	0.000683	"	"	"	"	"	
Naphthalene	"	0.110	----	0.00683	"	"	"	"	"	
Toluene	"	0.00107	----	0.00102	"	"	"	"	"	
o-Xylene	"	0.00457	----	0.00341	"	"	"	"	"	
m,p-Xylene	"	0.0589	----	0.00341	"	"	"	"	"	
Total Xylenes	"	0.0635	----	0.00683	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	110%		70 - 140 %	"					"
	Toluene-d8	97.8%		70 - 130 %	"					"
	4-BFB	99.5%		70 - 130 %	"					"

BSF0033-03 (AREA2-K1-11.5)

Soil

Sampled: 06/03/09 13:05

Benzene	EPA 8260B	0.00192	----	0.000967	mg/kg dry	1x	9F03013	06/03/09 15:15	06/03/09 20:21	
Ethylbenzene	"	ND	----	0.00258	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000645	"	"	"	"	"	
Naphthalene	"	ND	----	0.00645	"	"	"	"	"	
Toluene	"	ND	----	0.000967	"	"	"	"	"	
o-Xylene	"	ND	----	0.00322	"	"	"	"	"	
m,p-Xylene	"	0.00410	----	0.00322	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00645	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	93.3%		70 - 140 %	"					"
	Toluene-d8	95.2%		70 - 130 %	"					"
	4-BFB	95.6%		70 - 130 %	"					"

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/04/09 17:09

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-04 (AREA2-K2-14)		Soil		Sampled: 06/03/09 13:10						
Benzene	EPA 8260B	ND	----	0.000757	mg/kg dry	1x	9F03013	06/03/09 15:15	06/03/09 20:47	
Ethylbenzene	"	ND	----	0.00202	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000505	"	"	"	"	"	
Naphthalene	"	ND	----	0.00505	"	"	"	"	"	
Toluene	"	ND	----	0.000757	"	"	"	"	"	
o-Xylene	"	ND	----	0.00252	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00252	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00505	"	"	"	"	"	

Surrogate(s): 1,2-DCA-d4 94.7% 70 - 140 % "
 Toluene-d8 93.9% 70 - 130 % "
 4-BFB 94.3% 70 - 130 % "

BSF0033-05 (AREA2-K2-12)		Soil		Sampled: 06/03/09 13:15							P13
Benzene	EPA 8260B	ND	----	0.000674	mg/kg dry	1x	9F04003	06/04/09 07:00	06/04/09 10:20		
Ethylbenzene	"	ND	----	0.00180	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000450	"	"	"	"	"		
Naphthalene	"	ND	----	0.00450	"	"	"	"	"		
Toluene	"	ND	----	0.000674	"	"	"	"	"		
o-Xylene	"	ND	----	0.00225	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00225	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00450	"	"	"	"	"		

Surrogate(s): 1,2-DCA-d4 96.8% 70 - 140 % "
 Toluene-d8 93.9% 70 - 130 % "
 4-BFB 96.5% 70 - 130 % "

BSF0033-06 (AREA2-K3-14)		Soil		Sampled: 06/03/09 13:20							P13
Benzene	EPA 8260B	ND	----	0.000934	mg/kg dry	1x	9F04003	06/04/09 07:00	06/04/09 10:46		
Ethylbenzene	"	ND	----	0.00249	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000623	"	"	"	"	"		
Naphthalene	"	ND	----	0.00623	"	"	"	"	"		
Toluene	"	ND	----	0.000934	"	"	"	"	"		
o-Xylene	"	ND	----	0.00311	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00311	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00623	"	"	"	"	"		

Surrogate(s): 1,2-DCA-d4 101% 70 - 140 % "
 Toluene-d8 93.0% 70 - 130 % "
 4-BFB 99.1% 70 - 130 % "

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/04/09 17:09

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSF0033-07 (AREA2-K3-12)		Soil			Sampled: 06/03/09 13:25					
Benzene	EPA 8260B	ND	----	0.000990	mg/kg dry	1x	9F04003	06/04/09 07:00	06/04/09 11:11	
Ethylbenzene	"	ND	----	0.00264	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000660	"	"	"	"	"	
Naphthalene	"	ND	----	0.00660	"	"	"	"	"	
Toluene	"	ND	----	0.000990	"	"	"	"	"	
o-Xylene	"	ND	----	0.00330	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00330	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00660	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				102%		70 - 140 %	"			"
<i>Toluene-d8</i>				93.2%		70 - 130 %	"			"
<i>4-BFB</i>				100%		70 - 130 %	"			"

BSF0033-08 (AREA2-K4-14)		Soil			Sampled: 06/03/09 13:30						P13
Benzene	EPA 8260B	ND	----	0.000873	mg/kg dry	1x	9F04003	06/04/09 07:00	06/04/09 11:37		
Ethylbenzene	"	ND	----	0.00233	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000582	"	"	"	"	"		
Naphthalene	"	ND	----	0.00582	"	"	"	"	"		
Toluene	"	ND	----	0.000873	"	"	"	"	"		
o-Xylene	"	ND	----	0.00291	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00291	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00582	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				106%		70 - 140 %	"			"	
<i>Toluene-d8</i>				92.7%		70 - 130 %	"			"	
<i>4-BFB</i>				94.5%		70 - 130 %	"			"	

BSF0033-09 (AREA2-K4-12)		Soil			Sampled: 06/03/09 13:35						P13
Benzene	EPA 8260B	ND	----	0.000865	mg/kg dry	1x	9F04003	06/04/09 07:00	06/04/09 12:03		
Ethylbenzene	"	ND	----	0.00231	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000576	"	"	"	"	"		
Naphthalene	"	ND	----	0.00576	"	"	"	"	"		
Toluene	"	ND	----	0.000865	"	"	"	"	"		
o-Xylene	"	ND	----	0.00288	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00288	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00576	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				101%		70 - 140 %	"			"	
<i>Toluene-d8</i>				95.7%		70 - 130 %	"			"	
<i>4-BFB</i>				97.5%		70 - 130 %	"			"	

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/04/09 17:09
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-10 (DUP-17)		Soil			Sampled: 06/03/09 13:40					P13
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000539	mg/kg dry	1x	9F04003	06/04/09 07:00	06/04/09 12:29	
Surrogate(s):	1,2-DCA-d4		167%		70 - 140 %	"				ZX
	Toluene-d8		107%		70 - 130 %	"				
	4-BFB		121%		70 - 130 %	"				
BSF0033-11 (AREA2-I1-14)		Soil			Sampled: 06/03/09 14:00					
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000638	mg/kg dry	1x	9F04003	06/04/09 07:00	06/04/09 12:55	
Toluene	"	0.0552	----	0.000956	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		97.7%		70 - 140 %	"				
	Toluene-d8		104%		70 - 130 %	"				
	4-BFB		110%		70 - 130 %	"				
BSF0033-12RE1 (AREA2-I1-11)		Soil			Sampled: 06/03/09 14:10					P13
Benzene	EPA 8260B	0.00123	----	0.000853	mg/kg dry	1x	9F04003	06/04/09 07:00	06/04/09 14:36	
Ethylbenzene	"	0.00273	----	0.00227	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000568	"	"	"	"	"	
Naphthalene	"	ND	----	0.00568	"	"	"	"	"	
Toluene	"	0.00259	----	0.000853	"	"	"	"	"	
o-Xylene	"	0.00308	----	0.00284	"	"	"	"	"	
m,p-Xylene	"	0.0107	----	0.00284	"	"	"	"	"	
Total Xylenes	"	0.0138	----	0.00568	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		83.2%		70 - 140 %	"				
	Toluene-d8		108%		70 - 130 %	"				
	4-BFB		107%		70 - 130 %	"				
BSF0033-13 (AREA2-J1-14)		Soil			Sampled: 06/03/09 14:20					P13
Benzene	EPA 8260B	0.00754	----	0.000843	mg/kg dry	1x	9F04003	06/04/09 07:00	06/04/09 13:46	
Ethylbenzene	"	0.0797	----	0.00225	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000562	"	"	"	"	"	
Naphthalene	"	0.0280	----	0.00562	"	"	"	"	"	
Toluene	"	0.0885	----	0.000843	"	"	"	"	"	
Surrogate(s):	1,2-DCA-d4		90.6%		70 - 140 %	"				
	Toluene-d8		99.7%		70 - 130 %	"				
	4-BFB		97.1%		70 - 130 %	"				

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/04/09 17:09
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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSF0033-02 (AREA2-K1-14)		Soil			Sampled: 06/03/09 13:00						
Ethylbenzene	EPA 8260B	0.238	0.0157	0.131	mg/kg dry	1x	9F04005	06/04/09 06:00	06/04/09 11:59		
Surrogate(s):	1,2-DCA-d4		120%		75 - 125 %	"				"	
	Toluene-d8		101%		75 - 125 %	"				"	
	4-BFB		94.1%		75 - 125 %	"				"	
BSF0033-10 (DUP-17)		Soil			Sampled: 06/03/09 13:40						P13
Benzene	EPA 8260B	0.247	0.0137	0.0273	mg/kg dry	1x	9F04005	06/04/09 06:00	06/04/09 14:39		
Ethylbenzene	"	2.22	0.0164	0.137	"	"	"	"	"		
Naphthalene	"	ND	1.50	2.73	"	"	"	"	"		
Toluene	"	0.131	0.0137	0.137	"	"	"	"	"	J	
o-Xylene	"	2.21	0.0232	0.137	"	"	"	"	"		
m,p-Xylene	"	8.14	0.0287	0.273	"	"	"	"	"		
Xylenes (total)	"	10.4	0.0424	0.410	"	"	"	"	"		
Surrogate(s):	1,2-DCA-d4		125%		75 - 125 %	"				"	
	Toluene-d8		98.0%		75 - 125 %	"				"	
	4-BFB		98.8%		75 - 125 %	"				"	
BSF0033-11 (AREA2-I1-14)		Soil			Sampled: 06/03/09 14:00						
Benzene	EPA 8260B	0.194	0.0129	0.0259	mg/kg dry	1x	9F04005	06/04/09 06:00	06/04/09 15:06		
Ethylbenzene	"	2.41	0.0155	0.129	"	"	"	"	"		
Naphthalene	"	1.78	1.42	2.59	"	"	"	"	"	J	
o-Xylene	"	3.04	0.0220	0.129	"	"	"	"	"		
m,p-Xylene	"	9.73	0.0272	0.259	"	"	"	"	"		
Xylenes (total)	"	12.8	0.0401	0.388	"	"	"	"	"		
Surrogate(s):	1,2-DCA-d4		116%		75 - 125 %	"				"	
	Toluene-d8		98.2%		75 - 125 %	"				"	
	4-BFB		104%		75 - 125 %	"				"	
BSF0033-13 (AREA2-J1-14)		Soil			Sampled: 06/03/09 14:20						P13
o-Xylene	EPA 8260B	0.145	0.0204	0.120	mg/kg dry	1x	9F04005	06/04/09 06:00	06/04/09 15:59		
m,p-Xylene	"	0.558	0.0252	0.240	"	"	"	"	"		
Xylenes (total)	"	0.703	0.0372	0.360	"	"	"	"	"		
Surrogate(s):	1,2-DCA-d4		117%		75 - 125 %	"				"	
	Toluene-d8		102%		75 - 125 %	"				"	
	4-BFB		95.4%		75 - 125 %	"				"	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/04/09 17:09

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-01 (AREA1-J5-9)		Soil								Sampled: 06/03/09 11:10
Dry Weight	BSOPSP003R0 8	80.4	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-02 (AREA2-K1-14)		Soil								Sampled: 06/03/09 13:00
Dry Weight	BSOPSP003R0 8	78.3	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-03 (AREA2-K1-11.5)		Soil								Sampled: 06/03/09 13:05
Dry Weight	BSOPSP003R0 8	78.9	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-04 (AREA2-K2-14)		Soil								Sampled: 06/03/09 13:10
Dry Weight	BSOPSP003R0 8	78.8	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-05 (AREA2-K2-12)		Soil								Sampled: 06/03/09 13:15
Dry Weight	BSOPSP003R0 8	80.8	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-06 (AREA2-K3-14)		Soil								Sampled: 06/03/09 13:20
Dry Weight	BSOPSP003R0 8	71.8	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-07 (AREA2-K3-12)		Soil								Sampled: 06/03/09 13:25
Dry Weight	BSOPSP003R0 8	78.4	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-08 (AREA2-K4-14)		Soil								Sampled: 06/03/09 13:30
Dry Weight	BSOPSP003R0 8	80.5	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-09 (AREA2-K4-12)		Soil								Sampled: 06/03/09 13:35
Dry Weight	BSOPSP003R0 8	77.1	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-10 (DUP-17)		Soil								Sampled: 06/03/09 13:40
Dry Weight	BSOPSP003R0 8	82.8	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-11 (AREA2-I1-14)		Soil								Sampled: 06/03/09 14:00

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Kate Haney, Project Manager

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0033-11 (AREA2-I1-14)		Soil			Sampled: 06/03/09 14:00					
Dry Weight	BSOPSP003R0 8	83.4	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-12 (AREA2-I1-11)		Soil			Sampled: 06/03/09 14:10					
Dry Weight	BSOPSP003R0 8	80.4	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	
BSF0033-13 (AREA2-J1-14)		Soil			Sampled: 06/03/09 14:20					
Dry Weight	BSOPSP003R0 8	82.5	----	1.00	%	1x	9F03036	06/03/09 18:35	06/04/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/04/09 17:09
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F03026 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F03026-BLK1)										Extracted: 06/03/09 16:24				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/03/09 19:27	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 85.3%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/03/09 19:27</i>
LCS (9F03026-BS1)										Extracted: 06/03/09 16:24				
Gasoline Range Hydrocarbons	NWTPH-Gx	53.5	1.40	5.00	mg/kg wet	1x	--	50.0	107%	(80-120)	--	--	06/03/09 19:59	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.0%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/03/09 19:59</i>
Duplicate (9F03026-DUP1)										QC Source: BSF0033-01		Extracted: 06/03/09 16:24		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.83	6.52	mg/kg dry	1x	ND	--	--	--	NR (40)		06/03/09 21:37	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 105%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/03/09 21:37</i>
Duplicate (9F03026-DUP2)										QC Source: BSE0258-06		Extracted: 06/03/09 16:24		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	3.76	13.4	mg/kg dry	1x	ND	--	--	--	NR (40)		06/03/09 22:43	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/03/09 22:43</i>
Matrix Spike (9F03026-MS1)										QC Source: BSF0033-01		Extracted: 06/03/09 16:24		
Gasoline Range Hydrocarbons	NWTPH-Gx	76.5	1.83	6.52	mg/kg dry	1x	ND	53.0	144%	(75-130)	--	--	06/03/09 23:48	MI
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 119%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/03/09 23:48</i>

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Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381
 Project Manager: Ty Griffith

Report Created:
 06/04/09 17:09

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F03035 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F03035-BLK1)													Extracted: 06/03/09 18:05			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/03/09 20:30			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>86.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/03/09 20:30</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>94.0%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
LCS (9F03035-BS1)													Extracted: 06/03/09 18:05			
Lube Oil	NWTPH-Dx	67.5	---	25.0	mg/kg wet	1x	--	66.7	101%	(63-125)	--	--	06/03/09 20:52			
Diesel Range Hydrocarbons	"	66.3	---	10.0	"	"	--	"	99.4%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>82.4%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/03/09 20:52</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>89.8%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9F03035-DUP1)													QC Source: BSF0033-01		Extracted: 06/03/09 18:05	
Lube Oil	NWTPH-Dx	ND	---	31.3	mg/kg dry	1x	ND	--	--	--	81.5%	(50)	06/03/09 21:14	R4		
Kerosene	"	ND	---	12.5	"	"	ND	--	--	--	171%	"	"	R4		
Diesel Range Hydrocarbons	"	ND	---	12.5	"	"	ND	--	--	--	101%	"	"	R4		
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>78.9%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/03/09 21:14</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>86.5%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9F03035-DUP2)													QC Source: BSF0033-12		Extracted: 06/03/09 18:05	
Lube Oil	NWTPH-Dx	ND	---	30.6	mg/kg dry	1x	ND	--	--	--	(50)		06/03/09 21:37	R4		
Kerosene	"	ND	---	12.2	"	"	ND	--	--	--	"		"	R4		
Diesel Range Hydrocarbons	"	ND	---	12.2	"	"	ND	--	--	--	"		"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>81.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/03/09 21:37</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>96.6%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			
Matrix Spike (9F03035-MS1)													QC Source: BSF0033-01		Extracted: 06/03/09 18:05	
Lube Oil	NWTPH-Dx	80.7	---	30.8	mg/kg dry	1x	12.6	82.1	83.0%	(26-150)	--	--	06/03/09 21:59			
Diesel Range Hydrocarbons	"	79.1	---	12.3	"	"	5.42	"	89.7%	(46-155)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>80.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/03/09 21:59</i>			
<i>Octacosane</i>		<i>Recovery:</i>	<i>89.4%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>			

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F03043	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F03043-BLK1)								Extracted: 06/03/09 21:45						
Lead	EPA 6020	ND	---	0.495	mg/kg wet	1x	--	--	--	--	--	--	06/04/09 09:37	
LCS (9F03043-BS1)								Extracted: 06/03/09 21:45						
Lead	EPA 6020	39.5	---	0.510	mg/kg wet	1x	--	40.8	96.7%	(80-120)	--	--	06/04/09 09:44	
Duplicate (9F03043-DUP1)				QC Source: BSF0033-01				Extracted: 06/03/09 21:45						
Lead	EPA 6020	1.99	---	0.635	mg/kg dry	1x	2.29	--	--	--	14.0% (20)	--	06/04/09 10:03	
Matrix Spike (9F03043-MS1)				QC Source: BSF0033-01				Extracted: 06/03/09 21:45						
Lead	EPA 6020	50.4	---	0.635	mg/kg dry	1x	2.29	50.8	94.7%	(75-125)	--	--	06/04/09 09:56	
Post Spike (9F03043-PS1)				QC Source: BSF0033-01				Extracted: 06/03/09 21:45						
Lead	EPA 6020	0.107	---		ug/ml	1x	0.00375	0.100	104%	(80-120)	--	--	06/04/09 09:50	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F03013 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F03013-BLK1)													Extracted: 06/03/09 13:00			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/03/09 15:36			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 88.9%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/03/09 15:36</i>
<i>Toluene-d8</i>													<i>95.5%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>95.4%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9F03013-BS1)													Extracted: 06/03/09 13:00		MNR1	
Benzene	EPA 8260B	0.0497	---	0.00150	mg/kg wet	1x	--	0.0500	99.5%	(70-125)	--	--	06/03/09 14:19			
Ethylbenzene	"	0.0390	---	0.00400	"	"	--	"	78.0%	"	--	--	"			
Methyl tert-butyl ether	"	0.0513	---	0.00100	"	"	--	"	103%	(70-130)	--	--	"			
Naphthalene	"	0.0524	---	0.0100	"	"	--	"	105%	"	--	--	"			
Toluene	"	0.0413	---	0.00150	"	"	--	"	82.6%	(70-125)	--	--	"			
Total Xylenes	"	0.118	---	0.0100	"	"	--	0.150	78.7%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 85.0%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/03/09 14:19</i>
<i>Toluene-d8</i>													<i>92.0%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>99.3%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9F03013-BSD1)													Extracted: 06/03/09 13:00			
Benzene	EPA 8260B	0.0535	---	0.00150	mg/kg wet	1x	--	0.0500	107%	(70-125)	7.23% (30)	--	06/03/09 14:45			
Ethylbenzene	"	0.0446	---	0.00400	"	"	--	"	89.3%	"	13.5%	"	"			
Methyl tert-butyl ether	"	0.0510	---	0.00100	"	"	--	"	102%	(70-130)	0.509%	"	"			
Naphthalene	"	0.0557	---	0.0100	"	"	--	"	111%	"	6.16%	"	"			
Toluene	"	0.0470	---	0.00150	"	"	--	"	94.0%	(70-125)	12.9%	"	"			
Total Xylenes	"	0.133	---	0.0100	"	"	--	0.150	88.6%	(70-130)	11.8%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 87.5%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/03/09 14:45</i>
<i>Toluene-d8</i>													<i>98.1%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>95.8%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/04/09 17:09
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F04003 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F04003-BLK1)													Extracted: 06/04/09 07:00			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/04/09 09:54			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 80.6%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/04/09 09:54</i>
<i>Toluene-d8</i>													<i>98.1%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.2%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9F04003-BS1)													Extracted: 06/04/09 07:00		MNR1	
Benzene	EPA 8260B	0.0529	---	0.00150	mg/kg wet	1x	--	0.0500	106%	(70-125)	--	--	06/04/09 09:03			
Ethylbenzene	"	0.0416	---	0.00400	"	"	--	"	83.2%	"	--	--	"			
Methyl tert-butyl ether	"	0.0514	---	0.00100	"	"	--	"	103%	(70-130)	--	--	"			
Naphthalene	"	0.0531	---	0.0100	"	"	--	"	106%	"	--	--	"			
Toluene	"	0.0434	---	0.00150	"	"	--	"	86.7%	(70-125)	--	--	"			
Total Xylenes	"	0.122	---	0.0100	"	"	--	0.150	81.2%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 81.0%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/04/09 09:03</i>
<i>Toluene-d8</i>													<i>92.8%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>95.8%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9F04003-BSD1)													Extracted: 06/04/09 07:00			
Benzene	EPA 8260B	0.0547	---	0.00150	mg/kg wet	1x	--	0.0500	109%	(70-125)	3.29% (30)		06/04/09 09:29			
Ethylbenzene	"	0.0451	---	0.00400	"	"	--	"	90.2%	"	8.05%	"	"			
Methyl tert-butyl ether	"	0.0496	---	0.00100	"	"	--	"	99.3%	(70-130)	3.58%	"	"			
Naphthalene	"	0.0532	---	0.0100	"	"	--	"	106%	"	0.132%	"	"			
Toluene	"	0.0473	---	0.00150	"	"	--	"	94.6%	(70-125)	8.76%	"	"			
Total Xylenes	"	0.134	---	0.0100	"	"	--	0.150	89.4%	(70-130)	9.72%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 79.1%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/04/09 09:29</i>
<i>Toluene-d8</i>													<i>97.1%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>94.8%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F04005 **Soil Preparation Method: EPA 5030B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F04005-BLK1)													Extracted: 06/04/09 06:17	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	06/04/09 11:32	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>115%</i>	<i>Limits: 75-125%</i>									<i>06/04/09 11:32</i>	
<i>Toluene-d8</i>			<i>102%</i>	<i>75-125%</i>									<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>75-125%</i>									<i>"</i>	

LCS (9F04005-BS1)													Extracted: 06/04/09 06:17		MNR1
Benzene	EPA 8260B	4.06	0.0100	0.0200	mg/kg wet	1x	--	4.00	101%	(75-125)	--	--	06/04/09 08:31		
Ethylbenzene	"	4.14	0.0120	0.100	"	"	--	"	104%	"	--	--	"		
Methyl tert-butyl ether	"	4.72	0.0100	0.0500	"	"	--	"	118%	"	--	--	"		
Naphthalene	"	4.03	1.10	2.00	"	"	--	"	101%	(60-140)	--	--	"		
Toluene	"	3.82	0.0100	0.100	"	"	--	"	95.6%	(75-125)	--	--	"		
o-Xylene	"	4.16	0.0170	0.100	"	"	--	"	104%	"	--	--	"		
m,p-Xylene	"	8.03	0.0210	0.200	"	"	--	8.00	100%	"	--	--	"		
Xylenes (total)	"	12.2	0.0310	0.300	"	"	--	12.0	102%	"	--	--	"		
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>113%</i>	<i>Limits: 75-125%</i>									<i>06/04/09 08:31</i>		
<i>Toluene-d8</i>			<i>94.4%</i>	<i>75-125%</i>									<i>"</i>		
<i>4-BFB</i>			<i>99.0%</i>	<i>75-125%</i>									<i>"</i>		

LCS Dup (9F04005-BSD1)													Extracted: 06/04/09 06:17	
Benzene	EPA 8260B	3.97	0.0100	0.0200	mg/kg wet	1x	--	4.00	99.2%	(75-125)	2.22%	(20)	06/04/09 08:57	
Ethylbenzene	"	4.05	0.0120	0.100	"	"	--	"	101%	"	2.24%	"	"	
Methyl tert-butyl ether	"	4.67	0.0100	0.0500	"	"	--	"	117%	"	1.19%	"	"	
Naphthalene	"	4.14	1.10	2.00	"	"	--	"	104%	(60-140)	2.64%	"	"	
Toluene	"	3.75	0.0100	0.100	"	"	--	"	93.8%	(75-125)	1.95%	"	"	
o-Xylene	"	4.02	0.0170	0.100	"	"	--	"	101%	"	3.40%	"	"	
m,p-Xylene	"	7.81	0.0210	0.200	"	"	--	8.00	97.7%	"	2.78%	"	"	
Xylenes (total)	"	11.8	0.0310	0.300	"	"	--	12.0	98.6%	"	2.99%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 75-125%</i>									<i>06/04/09 08:57</i>	
<i>Toluene-d8</i>			<i>95.4%</i>	<i>75-125%</i>									<i>"</i>	
<i>4-BFB</i>			<i>100%</i>	<i>75-125%</i>									<i>"</i>	

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Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/04/09 17:09
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F03036 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F03036-BLK1)										Extracted: 06/03/09 18:35				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/04/09 00:00	

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/04/09 17:09

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/04/09 17:09

Notes and Definitions

Report Specific Notes:

- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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TAT: _____
Page Time & Initials: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?
Circle Y or N
(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
(applies to temp at receipt)

Date: 6/3/09 Date: 6/3/09 Date: 6/3/09 Date: _____ Work Order No. BSF0033
Time: 1710 Time: 1741 Time: 1807 Time: _____ Client: _____
Initials: EL Initials: FL Initials: FL Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
_____ Box _____ On Bottles _____ Date _____ Foam Packs
_____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
_____ Loose Ice _____ or N or NA _____ UPS TA Courier
_____ None/Other _____ Initial/date/time FL, 6/2/09 _____ DHL _____ Mid Valley
_____ Senvoy _____ TDP
_____ GS _____ Other _____

Cooler Temperature (IR): 5.4 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)
Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
(initial/date/time): _____
Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="radio"/> or N _____	Metals Preserved? Y or N or <input checked="" type="radio"/> NA _____	
Provided by TA? <input checked="" type="radio"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="radio"/> NA _____	
Correct Type? <input checked="" type="radio"/> or N _____	Adequate Volume? <input checked="" type="radio"/> or N _____ (for tests requested)	
#Containers match COC? <input checked="" type="radio"/> or N _____	Water VOAs: Headspace? Y or N or <input checked="" type="radio"/> NA _____	
IDs/time/date match COC? <input checked="" type="radio"/> or N _____	Comments: _____	
Hold Times in hold? <input checked="" type="radio"/> or N _____		

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

June 05, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/04/09 16:00.
The following list is a summary of the Work Orders contained in this report, generated on 06/05/09
16:44.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0041	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area2-G1-14	BSF0041-01	Soil	06/04/09 08:00	06/04/09 16:00
Area2-G1-10	BSF0041-02	Soil	06/04/09 08:05	06/04/09 16:00
Area2-H1-14	BSF0041-03	Soil	06/04/09 08:10	06/04/09 16:00
Area2-H1-11.5	BSF0041-04	Soil	06/04/09 08:15	06/04/09 16:00
Area2-F1-14	BSF0041-05	Soil	06/04/09 08:20	06/04/09 16:00
Area2-F1-11.5	BSF0041-06	Soil	06/04/09 08:25	06/04/09 16:00
DUP-18	BSF0041-07	Soil	06/04/09 09:00	06/04/09 16:00
Area2-E1-14	BSF0041-08	Soil	06/04/09 09:45	06/04/09 16:00
Area2-E1-12	BSF0041-09	Soil	06/04/09 09:50	06/04/09 16:00
Area2-D1-14	BSF0041-10	Soil	06/04/09 09:55	06/04/09 16:00
Area2-D1-12	BSF0041-11	Soil	06/04/09 10:00	06/04/09 16:00
Area2-E2-14	BSF0041-12	Soil	06/04/09 14:10	06/04/09 16:00
Area2-E3-14	BSF0041-13	Soil	06/04/09 14:20	06/04/09 16:00
Area2-E4-14	BSF0041-14	Soil	06/04/09 14:30	06/04/09 16:00
Area2-D2-14	BSF0041-15	Soil	06/04/09 14:40	06/04/09 16:00

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Analytical Case Narrative

TestAmerica - Seattle, WA

BSF0041

SAMPLE RECEIPT

The samples were received 06/04/2009 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 12.7 degrees Celsius which is outside the recommended temperature range of 2-6 Degrees Celsius. The samples are considered acceptable as they were received on-ice within four hours of the collection of the last sampled time on the COC.

PREPARATIONS AND ANALYSIS

The sampled time of one stir bar VOA vial submitted for Area2-G1-10) was listed on the sample label as 0804. The sample was logged in per the COC with a sampled time of 0805. The sampled time of the 2 ounce jar for Area2-H1-11.5 was not indicated on the sample label. The sample was logged in per the COC with a sampled time of 0815. One stir bar VOA vial and one MeOH voa vial for sample Area2-E3-14 was listed as 1410 on the label. The sample was logged in per the COC with a sampled time of 1420.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/05/09 16:44
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-01 (Area2-G1-14)		Soil		Sampled: 06/04/09 08:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.42	5.06	mg/kg dry	1x	9F04015	06/04/09 14:42	06/04/09 20:35	
Surrogate(s): 4-BFB (FID)			113%		75 - 140 %	"				"
BSF0041-02 (Area2-G1-10)		Soil		Sampled: 06/04/09 08:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	14.0	50.2	mg/kg dry	1x	9F04015	06/04/09 14:42	06/04/09 23:53	
Surrogate(s): 4-BFB (FID)			129%		75 - 140 %	"				"
BSF0041-03 (Area2-H1-14)		Soil		Sampled: 06/04/09 08:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	14.7	1.53	5.46	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 00:27	
Surrogate(s): 4-BFB (FID)			113%		75 - 140 %	"				"
BSF0041-04 (Area2-H1-11.5)		Soil		Sampled: 06/04/09 08:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	8.05	28.8	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 01:00	
Surrogate(s): 4-BFB (FID)			137%		75 - 140 %	"				"
BSF0041-05 (Area2-F1-14)		Soil		Sampled: 06/04/09 08:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	10.1	1.87	6.68	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 01:33	
Surrogate(s): 4-BFB (FID)			115%		75 - 140 %	"				"
BSF0041-06 (Area2-F1-11.5)		Soil		Sampled: 06/04/09 08:25						
Gasoline Range Hydrocarbons	NWTPH-Gx	13.7	11.8	42.1	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 02:06	J
Surrogate(s): 4-BFB (FID)			156%		75 - 140 %	"				ZX
BSF0041-07 (DUP-18)		Soil		Sampled: 06/04/09 09:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	9.21	1.45	5.17	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 02:39	
Surrogate(s): 4-BFB (FID)			109%		75 - 140 %	"				"
BSF0041-08 (Area2-E1-14)		Soil		Sampled: 06/04/09 09:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	76.6	1.63	5.83	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 03:12	
Surrogate(s): 4-BFB (FID)			136%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/05/09 16:44
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-09 (Area2-E1-12)		Soil		Sampled: 06/04/09 09:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	12.1	43.1	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 03:45	
Surrogate(s): 4-BFB (FID)			141%		75 - 140 %	"				ZX
BSF0041-10 (Area2-D1-14)		Soil		Sampled: 06/04/09 09:55						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.72	6.16	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 04:18	
Surrogate(s): 4-BFB (FID)			113%		75 - 140 %	"				
BSF0041-11 (Area2-D1-12)		Soil		Sampled: 06/04/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.52	5.44	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 04:51	
Surrogate(s): 4-BFB (FID)			116%		75 - 140 %	"				
BSF0041-12 (Area2-E2-14)		Soil		Sampled: 06/04/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.42	5.08	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 06:30	
Surrogate(s): 4-BFB (FID)			101%		75 - 140 %	"				
BSF0041-13 (Area2-E3-14)		Soil		Sampled: 06/04/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.95	6.95	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 07:03	
Surrogate(s): 4-BFB (FID)			116%		75 - 140 %	"				
BSF0041-14 (Area2-E4-14)		Soil		Sampled: 06/04/09 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	2960	80.8	289	mg/kg dry	50x	9F04015	06/04/09 14:42	06/05/09 12:15	
Surrogate(s): 4-BFB (FID)			130%		75 - 140 %	1x				
BSF0041-15 (Area2-D2-14)		Soil		Sampled: 06/04/09 14:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	2.27	2.04	7.29	mg/kg dry	1x	9F04015	06/04/09 14:42	06/05/09 11:42	J
Surrogate(s): 4-BFB (FID)			121%		75 - 140 %	"				

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/05/09 16:44
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-01 (Area2-G1-14)		Soil		Sampled: 06/04/09 08:00						
Lube Oil	NWTPH-Dx	ND	----	30.3	mg/kg dry	1x	9F03039	06/04/09 18:00	06/04/09 23:43	
Kerosene	"	ND	----	12.1	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.1	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.1%		54 - 148 %	"				"
<i>Octacosane</i>			98.5%		62 - 142 %	"				"
BSF0041-02 (Area2-G1-10)		Soil		Sampled: 06/04/09 08:05						
Lube Oil	NWTPH-Dx	ND	----	102	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 00:05	
Kerosene	"	ND	----	40.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	40.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.8%		54 - 148 %	"				"
<i>Octacosane</i>			93.2%		62 - 142 %	"				"
BSF0041-03 (Area2-H1-14)		Soil		Sampled: 06/04/09 08:10						
Lube Oil	NWTPH-Dx	ND	----	29.8	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 00:28	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			81.0%		54 - 148 %	"				"
<i>Octacosane</i>			93.3%		62 - 142 %	"				"
BSF0041-04 (Area2-H1-11.5)		Soil		Sampled: 06/04/09 08:15						
Lube Oil	NWTPH-Dx	185	----	75.1	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 00:50	Q9
Kerosene	"	ND	----	30.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	66.3	----	30.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			81.6%		54 - 148 %	"				"
<i>Octacosane</i>			89.2%		62 - 142 %	"				"
BSF0041-05 (Area2-F1-14)		Soil		Sampled: 06/04/09 08:20						
Lube Oil	NWTPH-Dx	ND	----	32.3	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 01:12	
Kerosene	"	ND	----	12.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.4%		54 - 148 %	"				"
<i>Octacosane</i>			96.2%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/05/09 16:44
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-06 (Area2-F1-11.5)		Soil		Sampled: 06/04/09 08:25						
Lube Oil	NWTPH-Dx	119	----	111	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 01:35	Q9
Kerosene	"	ND	----	44.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	44.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			77.0%		54 - 148 %	"				
<i>Octacosane</i>			88.4%		62 - 142 %	"				
BSF0041-07 (DUP-18)		Soil		Sampled: 06/04/09 09:00						
Lube Oil	NWTPH-Dx	ND	----	29.0	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 01:57	
Kerosene	"	ND	----	11.6	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.4%		54 - 148 %	"				
<i>Octacosane</i>			94.1%		62 - 142 %	"				
BSF0041-08 (Area2-E1-14)		Soil		Sampled: 06/04/09 09:45						
Lube Oil	NWTPH-Dx	ND	----	30.9	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 02:19	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			81.1%		54 - 148 %	"				
<i>Octacosane</i>			99.2%		62 - 142 %	"				
BSF0041-09 (Area2-E1-12)		Soil		Sampled: 06/04/09 09:50						
Lube Oil	NWTPH-Dx	ND	----	102	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 02:42	
Kerosene	"	ND	----	40.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	44.6	----	40.8	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			81.3%		54 - 148 %	"				
<i>Octacosane</i>			89.7%		62 - 142 %	"				
BSF0041-10 (Area2-D1-14)		Soil		Sampled: 06/04/09 09:55						
Lube Oil	NWTPH-Dx	ND	----	30.7	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 03:04	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.2%		54 - 148 %	"				
<i>Octacosane</i>			94.1%		62 - 142 %	"				

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/05/09 16:44
--	---	-----------------------------------

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-11 (Area2-D1-12)		Soil		Sampled: 06/04/09 10:00						
Lube Oil	NWTPH-Dx	ND	----	31.0	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 04:55	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			87.3%		54 - 148 %	"				"
<i>Octacosane</i>			98.8%		62 - 142 %	"				"
BSF0041-12 (Area2-E2-14)		Soil		Sampled: 06/04/09 14:10						
Lube Oil	NWTPH-Dx	ND	----	27.5	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 05:18	
Kerosene	"	ND	----	11.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			85.9%		54 - 148 %	"				"
<i>Octacosane</i>			96.2%		62 - 142 %	"				"
BSF0041-13 (Area2-E3-14)		Soil		Sampled: 06/04/09 14:20						
Lube Oil	NWTPH-Dx	ND	----	32.5	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 05:40	
Kerosene	"	ND	----	13.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.6%		54 - 148 %	"				"
<i>Octacosane</i>			100%		62 - 142 %	"				"
BSF0041-14 (Area2-E4-14)		Soil		Sampled: 06/04/09 14:30						
Lube Oil	NWTPH-Dx	ND	----	30.0	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 06:02	
Kerosene	"	58.3	----	12.0	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	20.3	----	12.0	"	"	"	"	"	Q5
<i>Surrogate(s): 2-FBP</i>			79.3%		54 - 148 %	"				"
<i>Octacosane</i>			89.9%		62 - 142 %	"				"
BSF0041-15 (Area2-D2-14)		Soil		Sampled: 06/04/09 14:40						
Lube Oil	NWTPH-Dx	ND	----	33.4	mg/kg dry	1x	9F03039	06/04/09 18:00	06/05/09 06:24	
Kerosene	"	ND	----	13.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.9%		54 - 148 %	"				"
<i>Octacosane</i>			96.7%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-01	(Area2-G1-14)	Soil		Sampled: 06/04/09 08:00						
Lead	EPA 6020	1.78	----	0.577	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 10:49	
BSF0041-02	(Area2-G1-10)	Soil		Sampled: 06/04/09 08:05						
Lead	EPA 6020	1.95	----	1.46	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 10:55	
BSF0041-03	(Area2-H1-14)	Soil		Sampled: 06/04/09 08:10						
Lead	EPA 6020	2.37	----	0.535	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 11:20	
BSF0041-04	(Area2-H1-11.5)	Soil		Sampled: 06/04/09 08:15						
Lead	EPA 6020	39.1	----	1.07	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 11:26	
BSF0041-05	(Area2-F1-14)	Soil		Sampled: 06/04/09 08:20						
Lead	EPA 6020	3.96	----	0.519	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 11:33	
BSF0041-06	(Area2-F1-11.5)	Soil		Sampled: 06/04/09 08:25						
Lead	EPA 6020	101	----	2.05	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 11:39	
BSF0041-07	(DUP-18)	Soil		Sampled: 06/04/09 09:00						
Lead	EPA 6020	2.60	----	0.347	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 11:45	
BSF0041-08	(Area2-E1-14)	Soil		Sampled: 06/04/09 09:45						
Lead	EPA 6020	7.20	----	0.431	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 11:52	
BSF0041-09	(Area2-E1-12)	Soil		Sampled: 06/04/09 09:50						
Lead	EPA 6020	81.5	----	1.05	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 11:58	
BSF0041-10	(Area2-D1-14)	Soil		Sampled: 06/04/09 09:55						
Lead	EPA 6020	3.80	----	0.560	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 12:04	
BSF0041-11	(Area2-D1-12)	Soil		Sampled: 06/04/09 10:00						
Lead	EPA 6020	3.43	----	0.521	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 12:11	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-12 (Area2-E2-14)		Soil		Sampled: 06/04/09 14:10						
Lead	EPA 6020	3.22	----	0.369	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 12:17	
BSF0041-13 (Area2-E3-14)		Soil		Sampled: 06/04/09 14:20						
Lead	EPA 6020	23.7	----	0.429	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 12:42	
BSF0041-14 (Area2-E4-14)		Soil		Sampled: 06/04/09 14:30						
Lead	EPA 6020	43.4	----	0.343	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 12:48	
BSF0041-15 (Area2-D2-14)		Soil		Sampled: 06/04/09 14:40						
Lead	EPA 6020	20.6	----	0.418	mg/kg dry	1x	9F05002	06/05/09 05:23	06/05/09 12:55	

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-01 (Area2-G1-14)		Soil		Sampled: 06/04/09 08:00						P13
Benzene	EPA 8260B	ND	----	0.000875	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 19:15	
Ethylbenzene	"	ND	----	0.00233	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000583	"	"	"	"	"	
Naphthalene	"	ND	----	0.00583	"	"	"	"	"	
Toluene	"	0.00272	----	0.000875	"	"	"	"	"	
o-Xylene	"	ND	----	0.00292	"	"	"	"	"	
m,p-Xylene	"	0.00691	----	0.00292	"	"	"	"	"	
Total Xylenes	"	0.00916	----	0.00583	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				95.9%		70 - 140 %	"		"	
<i>Toluene-d8</i>				94.1%		70 - 130 %	"		"	
<i>4-BFB</i>				94.4%		70 - 130 %	"		"	
BSF0041-02 (Area2-G1-10)		Soil		Sampled: 06/04/09 08:05						P13
Benzene	EPA 8260B	ND	----	0.00292	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 19:41	
Methyl tert-butyl ether	"	ND	----	0.00195	"	"	"	"	"	
Naphthalene	"	ND	----	0.0195	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				90.3%		70 - 140 %	"		"	
<i>Toluene-d8</i>				123%		70 - 130 %	"		"	I2
<i>4-BFB</i>				125%		70 - 130 %	"		"	I2
BSF0041-03 (Area2-H1-14)		Soil		Sampled: 06/04/09 08:10						P13
Benzene	EPA 8260B	0.0571	----	0.000620	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 20:07	
Ethylbenzene	"	0.0409	----	0.00165	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000414	"	"	"	"	"	
Naphthalene	"	0.0591	----	0.00414	"	"	"	"	"	
Toluene	"	0.00321	----	0.000620	"	"	"	"	"	
o-Xylene	"	0.0295	----	0.00207	"	"	"	"	"	
m,p-Xylene	"	0.128	----	0.00207	"	"	"	"	"	
Total Xylenes	"	0.158	----	0.00414	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				102%		70 - 140 %	"		"	
<i>Toluene-d8</i>				99.7%		70 - 130 %	"		"	
<i>4-BFB</i>				95.1%		70 - 130 %	"		"	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSF0041-04 (Area2-H1-11.5)		Soil		Sampled: 06/04/09 08:15							
Benzene	EPA 8260B	0.0180	----	0.00265	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 20:33		
Methyl tert-butyl ether	"	ND	----	0.00176	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				74.5%	70 - 140 %	"					
<i>Toluene-d8</i>				126%	70 - 130 %	"				I2	
<i>4-BFB</i>				120%	70 - 130 %	"				I2	
BSF0041-05 (Area2-F1-14)		Soil		Sampled: 06/04/09 08:20							
Benzene	EPA 8260B	0.0191	----	0.00100	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 20:58		
Ethylbenzene	"	0.107	----	0.00267	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000669	"	"	"	"	"		
Naphthalene	"	0.0570	----	0.00669	"	"	"	"	"		
Toluene	"	0.0198	----	0.00100	"	"	"	"	"		
o-Xylene	"	0.0654	----	0.00334	"	"	"	"	"		
m,p-Xylene	"	0.257	----	0.00334	"	"	"	"	"		
Total Xylenes	"	0.322	----	0.00669	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				93.8%	70 - 140 %	"					
<i>Toluene-d8</i>				102%	70 - 130 %	"					
<i>4-BFB</i>				94.5%	70 - 130 %	"					
BSF0041-06 (Area2-F1-11.5)		Soil		Sampled: 06/04/09 08:25							
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00259	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 21:24		
<i>Surrogate(s): 1,2-DCA-d4</i>				84.2%	70 - 140 %	"					
<i>Toluene-d8</i>				135%	70 - 130 %	"				I2, ZX	
<i>4-BFB</i>				127%	70 - 130 %	"				I2	
BSF0041-07 (DUP-18)		Soil		Sampled: 06/04/09 09:00							P13
Benzene	EPA 8260B	0.0811	----	0.000770	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 21:50		
Ethylbenzene	"	0.0420	----	0.00205	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000513	"	"	"	"	"		
Naphthalene	"	0.0439	----	0.00513	"	"	"	"	"		
Toluene	"	0.00346	----	0.000770	"	"	"	"	"		
o-Xylene	"	0.0287	----	0.00257	"	"	"	"	"		
m,p-Xylene	"	0.119	----	0.00257	"	"	"	"	"		
Total Xylenes	"	0.148	----	0.00513	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>				94.6%	70 - 140 %	"					
<i>Toluene-d8</i>				95.4%	70 - 130 %	"					
<i>4-BFB</i>				98.0%	70 - 130 %	"					

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/05/09 16:44
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-08 (Area2-E1-14)		Soil			Sampled: 06/04/09 09:45					P13
Benzene	EPA 8260B	0.0307	----	0.000918	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 22:16	
Methyl tert-butyl ether	"	ND	----	0.000612	"	"	"	"	"	
Naphthalene	"	0.120	----	0.00612	"	"	"	"	"	
Toluene	"	0.00466	----	0.000918	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				97.6%	70 - 140 %	"				
<i>Toluene-d8</i>				96.9%	70 - 130 %	"				
<i>4-BFB</i>				97.6%	70 - 130 %	"				
BSF0041-09 (Area2-E1-12)		Soil			Sampled: 06/04/09 09:50					
Methyl tert-butyl ether	EPA 8260B	ND	----	0.00239	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 22:41	
<i>Surrogate(s): 1,2-DCA-d4</i>				83.0%	70 - 140 %	"				I2
<i>Toluene-d8</i>				134%	70 - 130 %	"				I2, ZX
<i>4-BFB</i>				129%	70 - 130 %	"				I2
BSF0041-10 (Area2-D1-14)		Soil			Sampled: 06/04/09 09:55					P13
Benzene	EPA 8260B	ND	----	0.000740	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 23:07	
Ethylbenzene	"	ND	----	0.00197	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000494	"	"	"	"	"	
Naphthalene	"	ND	----	0.00494	"	"	"	"	"	
Toluene	"	ND	----	0.000740	"	"	"	"	"	
o-Xylene	"	ND	----	0.00247	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00247	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00494	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				90.3%	70 - 140 %	"				
<i>Toluene-d8</i>				93.8%	70 - 130 %	"				
<i>4-BFB</i>				95.6%	70 - 130 %	"				
BSF0041-11 (Area2-D1-12)		Soil			Sampled: 06/04/09 10:00					P13
Benzene	EPA 8260B	ND	----	0.000709	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 23:33	
Ethylbenzene	"	ND	----	0.00189	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000473	"	"	"	"	"	
Naphthalene	"	ND	----	0.00473	"	"	"	"	"	
Toluene	"	ND	----	0.000709	"	"	"	"	"	
o-Xylene	"	ND	----	0.00236	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00236	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00473	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				92.3%	70 - 140 %	"				
<i>Toluene-d8</i>				93.9%	70 - 130 %	"				
<i>4-BFB</i>				93.7%	70 - 130 %	"				

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Kate Haney, Project Manager

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-12 (Area2-E2-14)		Soil		Sampled: 06/04/09 14:10						
Benzene	EPA 8260B	ND	----	0.000863	mg/kg dry	1x	9F04021	06/04/09 17:04	06/04/09 23:58	
Ethylbenzene	"	ND	----	0.00230	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000575	"	"	"	"	"	
Naphthalene	"	ND	----	0.00575	"	"	"	"	"	
Toluene	"	ND	----	0.000863	"	"	"	"	"	
o-Xylene	"	ND	----	0.00288	"	"	"	"	"	
m,p-Xylene	"	0.00343	----	0.00288	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00575	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				87.5%		70 - 140 %	"			"
<i>Toluene-d8</i>				94.0%		70 - 130 %	"			"
<i>4-BFB</i>				96.7%		70 - 130 %	"			"
BSF0041-13 (Area2-E3-14)		Soil		Sampled: 06/04/09 14:20						
Benzene	EPA 8260B	0.00435	----	0.00105	mg/kg dry	1x	9F04021	06/04/09 17:04	06/05/09 00:24	
Ethylbenzene	"	0.00477	----	0.00279	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000698	"	"	"	"	"	
Naphthalene	"	ND	----	0.00698	"	"	"	"	"	
Toluene	"	ND	----	0.00105	"	"	"	"	"	
o-Xylene	"	ND	----	0.00349	"	"	"	"	"	
m,p-Xylene	"	0.00653	----	0.00349	"	"	"	"	"	
Total Xylenes	"	0.00795	----	0.00698	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				94.5%		70 - 140 %	"			"
<i>Toluene-d8</i>				96.0%		70 - 130 %	"			"
<i>4-BFB</i>				96.3%		70 - 130 %	"			"
BSF0041-14 (Area2-E4-14)		Soil		Sampled: 06/04/09 14:30						
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000605	mg/kg dry	1x	9F04021	06/04/09 17:04	06/05/09 00:50	
<i>Surrogate(s): 1,2-DCA-d4</i>				89.3%		70 - 140 %	"			"
<i>Toluene-d8</i>				185%		70 - 130 %	"			12, ZX
<i>4-BFB</i>				544%		70 - 130 %	"			12, ZX

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Kate Haney, Project Manager

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1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-15RE1 (Area2-D2-14)		Soil		Sampled: 06/04/09 14:40						
Benzene	EPA 8260B	ND	----	0.000931	mg/kg dry	1x	9F05007	06/05/09 10:00	06/05/09 12:25	
Ethylbenzene	"	ND	----	0.00248	"	"	"	"	"	"
Methyl tert-butyl ether	"	ND	----	0.000621	"	"	"	"	"	"
Naphthalene	"	ND	----	0.00621	"	"	"	"	"	"
Toluene	"	0.00164	----	0.000931	"	"	"	"	"	"
o-Xylene	"	ND	----	0.00310	"	"	"	"	"	"
m,p-Xylene	"	0.00487	----	0.00310	"	"	"	"	"	"
Total Xylenes	"	ND	----	0.00621	"	"	"	"	"	"
<i>Surrogate(s): 1,2-DCA-d4</i>				86.5%		70 - 140 %	"			"
<i>Toluene-d8</i>				104%		70 - 130 %	"			"
<i>4-BFB</i>				102%		70 - 130 %	"			"

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Volatile Organic Compounds by EPA Method 8260B
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-02 (Area2-G1-10)		Soil		Sampled: 06/04/09 08:05						
Ethylbenzene	EPA 8260B	ND	0.0924	0.770	mg/kg dry	1x	9F05005	06/05/09 08:00	06/05/09 11:21	
Toluene	"	ND	0.0770	0.770	"	"	"	"	"	
o-Xylene	"	ND	0.131	0.770	"	"	"	"	"	
m,p-Xylene	"	ND	0.162	1.54	"	"	"	"	"	
Xylenes (total)	"	ND	0.239	2.31	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			114%		75 - 125 %	"				"
<i>Toluene-d8</i>			101%		75 - 125 %	"				"
<i>4-BFB</i>			96.1%		75 - 125 %	"				"
BSF0041-04 (Area2-H1-11.5)		Soil		Sampled: 06/04/09 08:15						
Ethylbenzene	EPA 8260B	0.0805	0.0690	0.575	mg/kg dry	1x	9F05005	06/05/09 08:00	06/05/09 11:48	J
Naphthalene	"	ND	6.33	11.5	"	"	"	"	"	
Toluene	"	ND	0.0575	0.575	"	"	"	"	"	
o-Xylene	"	ND	0.0978	0.575	"	"	"	"	"	
m,p-Xylene	"	0.167	0.121	1.15	"	"	"	"	"	J
Xylenes (total)	"	ND	0.178	1.73	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			118%		75 - 125 %	"				"
<i>Toluene-d8</i>			102%		75 - 125 %	"				"
<i>4-BFB</i>			95.6%		75 - 125 %	"				"
BSF0041-06 (Area2-F1-11.5)		Soil		Sampled: 06/04/09 08:25						
Benzene	EPA 8260B	0.126	0.0842	0.168	mg/kg dry	1x	9F05005	06/05/09 08:00	06/05/09 12:14	J
Ethylbenzene	"	0.168	0.101	0.842	"	"	"	"	"	J
Naphthalene	"	ND	9.27	16.8	"	"	"	"	"	
Toluene	"	ND	0.0842	0.842	"	"	"	"	"	
o-Xylene	"	ND	0.143	0.842	"	"	"	"	"	
m,p-Xylene	"	0.438	0.177	1.68	"	"	"	"	"	J
Xylenes (total)	"	0.548	0.261	2.53	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			126%		75 - 125 %	"				ZX
<i>Toluene-d8</i>			103%		75 - 125 %	"				"
<i>4-BFB</i>			99.8%		75 - 125 %	"				"

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/05/09 16:44
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Volatile Organic Compounds by EPA Method 8260B

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-08 (Area2-E1-14)		Soil		Sampled: 06/04/09 09:45						
Ethylbenzene	EPA 8260B	0.901	0.0140	0.117	mg/kg dry	1x	9F05005	06/05/09 08:00	06/05/09 12:41	
o-Xylene	"	0.239	0.0198	0.117	"	"	"	"	"	
m,p-Xylene	"	1.88	0.0245	0.233	"	"	"	"	"	
Xylenes (total)	"	2.11	0.0361	0.350	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			129%		75 - 125 %	"				ZX
<i>Toluene-d8</i>			99.5%		75 - 125 %	"				
<i>4-BFB</i>			96.6%		75 - 125 %	"				
BSF0041-09 (Area2-E1-12)		Soil		Sampled: 06/04/09 09:50						
Benzene	EPA 8260B	ND	0.0861	0.172	mg/kg dry	1x	9F05005	06/05/09 08:00	06/05/09 13:08	
Ethylbenzene	"	0.146	0.103	0.861	"	"	"	"	"	J
Naphthalene	"	ND	9.47	17.2	"	"	"	"	"	
Toluene	"	0.129	0.0861	0.861	"	"	"	"	"	J
o-Xylene	"	ND	0.146	0.861	"	"	"	"	"	
m,p-Xylene	"	0.327	0.181	1.72	"	"	"	"	"	J
Xylenes (total)	"	0.327	0.267	2.58	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			119%		75 - 125 %	"				
<i>Toluene-d8</i>			102%		75 - 125 %	"				
<i>4-BFB</i>			101%		75 - 125 %	"				
BSF0041-14 (Area2-E4-14)		Soil		Sampled: 06/04/09 14:30						
Benzene	EPA 8260B	6.84	0.0115	0.0231	mg/kg dry	1x	9F05005	06/05/09 08:00	06/05/09 14:28	
Naphthalene	"	10.8	1.27	2.31	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			115%		75 - 125 %	"				
<i>Toluene-d8</i>			96.2%		75 - 125 %	"				
<i>4-BFB</i>			101%		75 - 125 %	"				
BSF0041-14RE1 (Area2-E4-14)		Soil		Sampled: 06/04/09 14:30						
Ethylbenzene	EPA 8260B	50.5	0.554	4.62	mg/kg dry	40x	9F05005	06/05/09 08:00	06/05/09 14:01	
Toluene	"	67.2	0.462	4.62	"	"	"	"	"	
o-Xylene	"	73.1	0.785	4.62	"	"	"	"	"	
m,p-Xylene	"	208	0.970	9.23	"	"	"	"	"	
Xylenes (total)	"	281	1.43	13.9	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			126%		75 - 125 %	1x				ZX
<i>Toluene-d8</i>			101%		75 - 125 %	"				
<i>4-BFB</i>			96.1%		75 - 125 %	"				

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1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-01	(Area2-G1-14)	Soil		Sampled: 06/04/09 08:00						
Dry Weight	BSOPSP003R0 8	82.5	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-02	(Area2-G1-10)	Soil		Sampled: 06/04/09 08:05						
Dry Weight	BSOPSP003R0 8	24.4	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-03	(Area2-H1-14)	Soil		Sampled: 06/04/09 08:10						
Dry Weight	BSOPSP003R0 8	85.0	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-04	(Area2-H1-11.5)	Soil		Sampled: 06/04/09 08:15						
Dry Weight	BSOPSP003R0 8	33.5	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-05	(Area2-F1-14)	Soil		Sampled: 06/04/09 08:20						
Dry Weight	BSOPSP003R0 8	78.3	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-06	(Area2-F1-11.5)	Soil		Sampled: 06/04/09 08:25						
Dry Weight	BSOPSP003R0 8	22.2	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-07	(DUP-18)	Soil		Sampled: 06/04/09 09:00						
Dry Weight	BSOPSP003R0 8	85.8	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-08	(Area2-E1-14)	Soil		Sampled: 06/04/09 09:45						
Dry Weight	BSOPSP003R0 8	81.7	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-09	(Area2-E1-12)	Soil		Sampled: 06/04/09 09:50						
Dry Weight	BSOPSP003R0 8	24.3	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-10	(Area2-D1-14)	Soil		Sampled: 06/04/09 09:55						
Dry Weight	BSOPSP003R0 8	80.4	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-11	(Area2-D1-12)	Soil		Sampled: 06/04/09 10:00						

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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0041-11 (Area2-D1-12)		Soil			Sampled: 06/04/09 10:00					
Dry Weight	BSOPSP003R0 8	80.0	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-12 (Area2-E2-14)		Soil			Sampled: 06/04/09 14:10					
Dry Weight	BSOPSP003R0 8	89.7	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-13 (Area2-E3-14)		Soil			Sampled: 06/04/09 14:20					
Dry Weight	BSOPSP003R0 8	76.1	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-14 (Area2-E4-14)		Soil			Sampled: 06/04/09 14:30					
Dry Weight	BSOPSP003R0 8	82.9	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	
BSF0041-15 (Area2-D2-14)		Soil			Sampled: 06/04/09 14:40					
Dry Weight	BSOPSP003R0 8	73.8	----	1.00	%	1x	9F04023	06/04/09 17:13	06/05/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F04015 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F04015-BLK1)										Extracted: 06/04/09 14:42				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/04/09 16:42	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 88.6%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>06/04/09 16:42</i>
LCS (9F04015-BS1)										Extracted: 06/04/09 14:42				
Gasoline Range Hydrocarbons	NWTPH-Gx	57.5	1.40	5.00	mg/kg wet	1x	--	50.0	115%	(80-120)	--	--	06/04/09 17:15	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 99.0%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>06/04/09 17:15</i>
Duplicate (9F04015-DUP1)										QC Source: BSF0039-01		Extracted: 06/04/09 14:42		
Gasoline Range Hydrocarbons	NWTPH-Gx	7.39	1.30	4.64	mg/kg wet	1x	7.32	--	--	--	0.933% (40)		06/04/09 18:55	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 90.8%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>06/04/09 18:55</i>
Duplicate (9F04015-DUP2)										QC Source: BSF0039-02		Extracted: 06/04/09 14:42		
Gasoline Range Hydrocarbons	NWTPH-Gx	1.38	1.23	4.39	mg/kg wet	1x	ND	--	--	--	(40)		06/04/09 20:02	J
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 90.4%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>06/04/09 20:02</i>
Matrix Spike (9F04015-MS1)										QC Source: BSF0039-01		Extracted: 06/04/09 14:42		
Gasoline Range Hydrocarbons	NWTPH-Gx	63.1	1.30	4.64	mg/kg wet	1x	7.32	46.4	120%	(75-130)	--	--	06/04/09 21:08	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 102%</i>	<i>Limits: 75-140%</i>		<i>"</i>									<i>06/04/09 21:08</i>

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F03039 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F03039-BLK1)

Extracted: 06/04/09 18:00

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/04/09 18:28	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 86.3%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>06/04/09 18:28</i>		
<i>Octacosane</i>		<i>101%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

LCS (9F03039-BS1)

Extracted: 06/04/09 18:00

Lube Oil	NWTPH-Dx	69.1	---	25.0	mg/kg wet	1x	--	66.7	104%	(63-125)	--	--	06/04/09 18:51	
Diesel Range Hydrocarbons	"	66.3	---	10.0	"	"	--	"	99.4%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 88.8%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>06/04/09 18:51</i>		
<i>Octacosane</i>		<i>94.6%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

Duplicate (9F03039-DUP1)

QC Source: BSF0028-02

Extracted: 06/04/09 18:00

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	ND	--	--	--	41.1% (50)	--	06/04/09 19:13	
Kerosene	"	ND	---	10.0	"	"	ND	--	--	--	41.1%	"	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	ND	--	--	--	2.92%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 81.5%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>06/04/09 19:13</i>		
<i>Octacosane</i>		<i>95.7%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

Duplicate (9F03039-DUP2)

QC Source: BSF0041-01

Extracted: 06/04/09 18:00

Lube Oil	NWTPH-Dx	ND	---	30.1	mg/kg dry	1x	ND	--	--	--	(50)	--	06/04/09 19:36	R4
Kerosene	"	ND	---	12.0	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.0	"	"	ND	--	--	--	"	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 88.3%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>06/04/09 19:36</i>		
<i>Octacosane</i>		<i>95.6%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

Matrix Spike (9F03039-MS1)

QC Source: BSF0028-02

Extracted: 06/04/09 18:00

Lube Oil	NWTPH-Dx	60.2	---	24.6	mg/kg wet	1x	3.49	65.6	86.6%	(26-150)	--	--	06/04/09 19:59	
Diesel Range Hydrocarbons	"	59.9	---	9.84	"	"	0.823	"	90.0%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 77.1%</i>		<i>Limits: 54-148%</i>		<i>"</i>						<i>06/04/09 19:59</i>		
<i>Octacosane</i>		<i>89.6%</i>		<i>62-142%</i>		<i>"</i>						<i>"</i>		

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Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F05002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F05002-BLK1)								Extracted: 06/05/09 05:23						
Lead	EPA 6020	ND	---	0.521	mg/kg wet	1x	--	--	--	--	--	--	06/05/09 10:17	
LCS (9F05002-BS1)								Extracted: 06/05/09 05:23						
Lead	EPA 6020	40.9	---	0.526	mg/kg wet	1x	--	42.1	97.0%	(80-120)	--	--	06/05/09 10:23	
Duplicate (9F05002-DUP1)				QC Source: BSF0041-01				Extracted: 06/05/09 05:23						
Lead	EPA 6020	1.71	---	0.518	mg/kg dry	1x	1.78	--	--	--	3.92% (20)	--	06/05/09 10:42	
Matrix Spike (9F05002-MS1)				QC Source: BSF0041-01				Extracted: 06/05/09 05:23						
Lead	EPA 6020	40.7	---	0.514	mg/kg dry	1x	1.78	41.1	94.9%	(75-125)	--	--	06/05/09 10:36	
Post Spike (9F05002-PS1)				QC Source: BSF0041-01				Extracted: 06/05/09 05:23						
Lead	EPA 6020	0.112	---		ug/ml	1x	0.00308	0.100	109%	(80-120)	--	--	06/05/09 10:30	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F04021 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F04021-BLK1)													Extracted: 06/04/09 17:04			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/04/09 18:49			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 97.4%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/04/09 18:49</i>
<i>Toluene-d8</i>													<i>93.6%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>93.5%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9F04021-BS1)													Extracted: 06/04/09 17:04		MNR1	
Benzene	EPA 8260B	0.0509	---	0.00150	mg/kg wet	1x	--	0.0500	102%	(70-125)	--	--	06/04/09 17:58			
Ethylbenzene	"	0.0425	---	0.00400	"	"	--	"	85.1%	"	--	--	"			
Methyl tert-butyl ether	"	0.0465	---	0.00100	"	"	--	"	93.0%	(70-130)	--	--	"			
Naphthalene	"	0.0468	---	0.0100	"	"	--	"	93.6%	"	--	--	"			
Toluene	"	0.0442	---	0.00150	"	"	--	"	88.4%	(70-125)	--	--	"			
Total Xylenes	"	0.124	---	0.0100	"	"	--	0.150	82.7%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 76.2%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/04/09 17:58</i>
<i>Toluene-d8</i>													<i>97.4%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>96.9%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9F04021-BSD1)													Extracted: 06/04/09 17:04			
Benzene	EPA 8260B	0.0507	---	0.00150	mg/kg wet	1x	--	0.0500	101%	(70-125)	0.256% (30)	--	06/04/09 18:23			
Ethylbenzene	"	0.0421	---	0.00400	"	"	--	"	84.2%	"	1.04%	"	"			
Methyl tert-butyl ether	"	0.0465	---	0.00100	"	"	--	"	92.9%	(70-130)	0.129%	"	"			
Naphthalene	"	0.0469	---	0.0100	"	"	--	"	93.7%	"	0.149%	"	"			
Toluene	"	0.0431	---	0.00150	"	"	--	"	86.2%	(70-125)	2.61%	"	"			
Total Xylenes	"	0.123	---	0.0100	"	"	--	0.150	82.0%	(70-130)	0.874%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 78.5%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/04/09 18:23</i>
<i>Toluene-d8</i>													<i>95.0%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>98.0%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F05007 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F05007-BLK1)													Extracted: 06/05/09 10:00			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/05/09 11:59			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 70.6%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/05/09 11:59</i>
<i>Toluene-d8</i>													<i>100%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>94.1%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9F05007-BS1)													Extracted: 06/05/09 10:00		MNR1	
Benzene	EPA 8260B	0.0591	---	0.00150	mg/kg wet	1x	--	0.0500	118%	(70-125)	--	--	06/05/09 11:09			
Ethylbenzene	"	0.0453	---	0.00400	"	"	--	"	90.5%	"	--	--	"			
Methyl tert-butyl ether	"	0.0561	---	0.00100	"	"	--	"	112%	(70-130)	--	--	"			
Naphthalene	"	0.0575	---	0.0100	"	"	--	"	115%	"	--	--	"			
Toluene	"	0.0487	---	0.00150	"	"	--	"	97.4%	(70-125)	--	--	"			
Total Xylenes	"	0.133	---	0.0100	"	"	--	0.150	88.8%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 74.9%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/05/09 11:09</i>
<i>Toluene-d8</i>													<i>97.1%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>96.3%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9F05007-BSD1)													Extracted: 06/05/09 10:00			
Benzene	EPA 8260B	0.0597	---	0.00150	mg/kg wet	1x	--	0.0500	119%	(70-125)	0.959% (30)		06/05/09 11:34			
Ethylbenzene	"	0.0466	---	0.00400	"	"	--	"	93.2%	"	2.94%	"	"			
Methyl tert-butyl ether	"	0.0531	---	0.00100	"	"	--	"	106%	(70-130)	5.49%	"	"			
Naphthalene	"	0.0533	---	0.0100	"	"	--	"	107%	"	7.55%	"	"			
Toluene	"	0.0506	---	0.00150	"	"	--	"	101%	(70-125)	3.91%	"	"			
Total Xylenes	"	0.137	---	0.0100	"	"	--	0.150	91.4%	(70-130)	2.89%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 70.4%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/05/09 11:34</i>
<i>Toluene-d8</i>													<i>99.5%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.5%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/05/09 16:44
--	---	-----------------------------------

Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F05005 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F05005-BLK1)													Extracted: 06/05/09 08:00	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	06/05/09 10:54	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>108%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>							<i>06/05/09 10:54</i>	
<i>Toluene-d8</i>			<i>99.2%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

LCS (9F05005-BS1)													Extracted: 06/05/09 08:00		MNR1
Benzene	EPA 8260B	4.05	0.0100	0.0200	mg/kg wet	1x	--	4.00	101%	(75-125)	--	--	06/05/09 09:27		
Ethylbenzene	"	4.31	0.0120	0.100	"	"	--	"	108%	"	--	--	"		
Methyl tert-butyl ether	"	4.71	0.0100	0.0500	"	"	--	"	118%	"	--	--	"		
Naphthalene	"	4.19	1.10	2.00	"	"	--	"	105%	(60-140)	--	--	"		
Toluene	"	3.98	0.0100	0.100	"	"	--	"	99.6%	(75-125)	--	--	"		
o-Xylene	"	4.26	0.0170	0.100	"	"	--	"	106%	"	--	--	"		
m,p-Xylene	"	8.28	0.0210	0.200	"	"	--	8.00	104%	"	--	--	"		
Xylenes (total)	"	12.5	0.0310	0.300	"	"	--	12.0	105%	"	--	--	"		
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>							<i>06/05/09 09:27</i>		
<i>Toluene-d8</i>			<i>99.0%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>		
<i>4-BFB</i>			<i>99.4%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>		

LCS Dup (9F05005-BSD1)													Extracted: 06/05/09 08:00	
Benzene	EPA 8260B	4.00	0.0100	0.0200	mg/kg wet	1x	--	4.00	100%	(75-125)	1.07%	(20)	06/05/09 09:54	
Ethylbenzene	"	4.03	0.0120	0.100	"	"	--	"	101%	"	6.70%	"	"	
Methyl tert-butyl ether	"	4.69	0.0100	0.0500	"	"	--	"	117%	"	0.404%	"	"	
Naphthalene	"	4.29	1.10	2.00	"	"	--	"	107%	(60-140)	2.45%	"	"	
Toluene	"	3.76	0.0100	0.100	"	"	--	"	94.0%	(75-125)	5.73%	"	"	
o-Xylene	"	4.06	0.0170	0.100	"	"	--	"	102%	"	4.64%	"	"	
m,p-Xylene	"	7.86	0.0210	0.200	"	"	--	8.00	98.2%	"	5.30%	"	"	
Xylenes (total)	"	11.9	0.0310	0.300	"	"	--	12.0	99.3%	"	5.08%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>106%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>							<i>06/05/09 09:54</i>	
<i>Toluene-d8</i>			<i>95.1%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>99.6%</i>		<i>75-125%</i>	<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/05/09 16:44
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F04023 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F04023-BLK1)										Extracted: 06/04/09 17:13				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/05/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/05/09 16:44

Notes and Definitions

Report Specific Notes:

- I2 - Internal Standard recovery was outside of method limits.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MNR1 - There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q5 - Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- Q9 - Hydrocarbon pattern most closely resembles Hydraulic Oil.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-565-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSF0041**

CLIENT: Conoco Phillips		INVOICE TO: cp	
REPORT TO: WMCSP Staff		ADDRESS:	
PHONE:	FAX:	P.O. NUMBER:	
PROJECT NAME: WMCSP Phase II		PRESERVATIVE:	
PROJECT NUMBER:		REQUESTED ANALYSES:	
SAMPLED BY: Matthew McKibbin		LEAD	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		
1. Area 2- G1-14	6-1-09 / 0800	X	X
2. " - G1-10	" / 0805	X	X
3. " - H1-14	" / 0810	X	X
4. " - H1-11.5	" / 0815	X	X
5. " F1-14	" / 0820	X	X
6. " F1-11.5	" / 0825	X	X
7. DUP-18	" / 0900	X	X
8. Area 2- E1-14	" / 0945	X	X
9. " E1-12	" / 0950	X	X
10. " D1-14	" / 0955	X	X

RELEASED BY: Matthew McKibbin	DATE: 6-4-09	RECEIVED BY: [Signature]	DATE: 6/14/09
PRINT NAME: Matthew McKibbin	TIME: 1445	PRINT NAME: Francisco Lunny Jr.	TIME: 1445
RELEASED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:

ADDITIONAL REMARKS:	FIRM: WRS	FIRM: WRS
	FIRM: Lab 1600	FIRM: W10
	TEMP: 12.7 °C	PAGE: 1 OF 2

TURNAROUND REQUEST

in Business Days *

Organic & Inorganic Analyses

Petroleum Hydrocarbon Analyses

10 STD. 7 5 4 3 2 1 <1

5 4 3 2 1 <1 STD.

OTHER Specify: **24-hr**

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
S	4	Crucible Sand FID 2 ppm	-01
	5	Sandbag 2 ppm	-02
	4	Crucible Sand 103 ppm	-03
	5	Sandbag 4.6 ppm	-04
	4	Crucible Sand 14 ppm	-05
	5	Sandbag 6.3 ppm	-06
	4	Silty Sand	-07
	4	21 ppm	-08
	5	Sandbag 4.5 ppm	-09
	4	Crucible Sand 1 ppm	-10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSF0041**

CLIENT: Genco PHILLIPS		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: wmcf Staff		P.O. NUMBER:		<input type="checkbox"/> 10 STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Organic & Inorganic Analyses	
PHONE:		PRESERVATIVE		<input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses	
PROJECT NAME: wmcf Phase II		REQUESTED ANALYSES		OTHER Specify: ZHR * Turnaround Requests less than standard may incur Rush Charges.	
PROJECT NUMBER:		CLIENT SAMPLE IDENTIFICATION		MATRIX (W, S, O)	
SAMPLED BY: Matthew McKibbin		SAMPLING DATE/TIME		# OF CONT.	
1 Area 2-D1-12		6-4-09 / 1000		4	
2 " -E2-14		" / 1410		4	
3 " -E3-14		" / 1420		4	
4 " -E4-14		" / 1430		4	
5 " -D2-14		" / 1440		4	
6					
7					
8					
9					
10					
RELEASED BY: Matthew McKibbin		DATE: 6-4-09		DATE: 6-4-09	
PRINT NAME: Matthew McKibbin		TIME: 1445		TIME: 1445	
FIRM: WAS		FIRM: FRANCOISCC Lung, Jr.		FIRM: TH-SFA	
RECEIVED BY:		DATE:		DATE:	
PRINT NAME:		TIME:		TIME:	
FIRM:		FIRM:		FIRM:	
RECEIVED BY:		DATE:		DATE:	
PRINT NAME:		TIME:		TIME:	
FIRM:		FIRM:		FIRM:	
ADDITIONAL REMARKS:		TEMP: 12.7 °C		PAGE 2 OF 2	
@Lab 1600 w/o					

TAT: _____

Paperwork to PM - Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Rush

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 6/4/09 Date: 6/4/09 Date: 6/4 Date: _____ Work Order No. BSF0041
 Time: 1600 Time: 1631 Time: 1700 Time: _____ Client: _____
 Initials: FL Initials: TP Initials: TS Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs
 _____ None/Other _____ None _____ None/Other Plastic Bag

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley
 _____ GS _____ Senvoy _____ TDP
 _____ Other _____

12.7, 9.8
 Cooler Temperature (IR): 12.7 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="checkbox"/> or N _____	Metals Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Provided by TA? <input checked="" type="checkbox"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Correct Type? <input checked="" type="checkbox"/> or N _____	Adequate Volume? <input checked="" type="checkbox"/> or N _____	
#Containers match COC? <input checked="" type="checkbox"/> or N _____	(for tests requested)	
IDs/time/date match COC? Y or <input checked="" type="checkbox"/> N _____	Water VOAs: Headspace? Y or N or <input checked="" type="checkbox"/> NA _____	
Hold Times in hold? <input checked="" type="checkbox"/> or N _____	Comments: _____	

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? Y or N

June 08, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/05/09 15:15.
The following list is a summary of the Work Orders contained in this report, generated on 06/08/09
16:58.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0055	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/08/09 16:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA2-C1-14	BSF0055-01	Soil	06/05/09 07:50	06/05/09 15:15
AREA2-C1-11	BSF0055-02	Soil	06/05/09 07:55	06/05/09 15:15
AREA2-B1-14	BSF0055-03	Soil	06/05/09 08:13	06/05/09 15:15
AREA2-B1-11	BSF0055-04	Soil	06/05/09 08:18	06/05/09 15:15
AREA2-A1-14	BSF0055-05	Soil	06/05/09 08:25	06/05/09 15:15
AREA2-A1-11	BSF0055-06	Soil	06/05/09 08:30	06/05/09 15:15

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/08/09 16:58
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0055-01 (AREA2-C1-14)		Soil			Sampled: 06/05/09 07:50					
Gasoline Range Hydrocarbons	NWTPH-Gx	32.9	1.75	6.24	mg/kg dry	1x	9F05028	06/05/09 17:01	06/05/09 18:08	
Surrogate(s): 4-BFB (FID)			133%		75 - 140 %	"				"
BSF0055-02 (AREA2-C1-11)		Soil			Sampled: 06/05/09 07:55					
Gasoline Range Hydrocarbons	NWTPH-Gx	9.50	1.56	5.58	mg/kg dry	1x	9F05028	06/05/09 17:01	06/05/09 18:40	
Surrogate(s): 4-BFB (FID)			105%		75 - 140 %	"				"
BSF0055-03 (AREA2-B1-14)		Soil			Sampled: 06/05/09 08:13					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.80	6.43	mg/kg dry	1x	9F05028	06/05/09 17:01	06/05/09 19:13	
Surrogate(s): 4-BFB (FID)			108%		75 - 140 %	"				"
BSF0055-04 (AREA2-B1-11)		Soil			Sampled: 06/05/09 08:18					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.92	6.85	mg/kg dry	1x	9F05028	06/05/09 17:01	06/05/09 19:45	
Surrogate(s): 4-BFB (FID)			106%		75 - 140 %	"				"
BSF0055-05 (AREA2-A1-14)		Soil			Sampled: 06/05/09 08:25					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.63	5.81	mg/kg dry	1x	9F05028	06/05/09 17:01	06/05/09 20:17	
Surrogate(s): 4-BFB (FID)			101%		75 - 140 %	"				"
BSF0055-06 (AREA2-A1-11)		Soil			Sampled: 06/05/09 08:30					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.98	7.06	mg/kg dry	1x	9F05028	06/05/09 17:01	06/05/09 20:50	M1
Surrogate(s): 4-BFB (FID)			107%		75 - 140 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/08/09 16:58
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0055-01 (AREA2-C1-14)		Soil		Sampled: 06/05/09 07:50						
Lube Oil	NWTPH-Dx	ND	----	31.3	mg/kg dry	1x	9F05014	06/05/09 16:39	06/05/09 19:58	
Kerosene	"	ND	----	12.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			79.3%		54 - 148 %	"				"
<i>Octacosane</i>			94.6%		62 - 142 %	"				"
BSF0055-02 (AREA2-C1-11)		Soil		Sampled: 06/05/09 07:55						
Lube Oil	NWTPH-Dx	ND	----	29.5	mg/kg dry	1x	9F05014	06/05/09 16:39	06/05/09 20:20	
Kerosene	"	ND	----	11.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			87.9%		54 - 148 %	"				"
<i>Octacosane</i>			95.8%		62 - 142 %	"				"
BSF0055-03 (AREA2-B1-14)		Soil		Sampled: 06/05/09 08:13						
Lube Oil	NWTPH-Dx	ND	----	31.7	mg/kg dry	1x	9F05014	06/05/09 16:39	06/05/09 20:43	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.5%		54 - 148 %	"				"
<i>Octacosane</i>			96.9%		62 - 142 %	"				"
BSF0055-04 (AREA2-B1-11)		Soil		Sampled: 06/05/09 08:18						
Lube Oil	NWTPH-Dx	ND	----	32.2	mg/kg dry	1x	9F05014	06/05/09 16:39	06/05/09 21:05	
Kerosene	"	ND	----	12.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			84.7%		54 - 148 %	"				"
<i>Octacosane</i>			96.0%		62 - 142 %	"				"
BSF0055-05 (AREA2-A1-14)		Soil		Sampled: 06/05/09 08:25						
Lube Oil	NWTPH-Dx	ND	----	29.9	mg/kg dry	1x	9F05014	06/05/09 16:39	06/05/09 21:28	
Kerosene	"	ND	----	11.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			86.2%		54 - 148 %	"				"
<i>Octacosane</i>			97.7%		62 - 142 %	"				"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/08/09 16:58

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0055-06 (AREA2-A1-11)		Soil			Sampled: 06/05/09 08:30					
Lube Oil	NWTPH-Dx	ND	----	32.2	mg/kg dry	1x	9F05014	06/05/09 16:39	06/05/09 21:50	
Kerosene	"	ND	----	12.9	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>				<i>81.9%</i>	<i>54 - 148 %</i>	<i>"</i>				<i>"</i>
<i>Octacosane</i>				<i>95.7%</i>	<i>62 - 142 %</i>	<i>"</i>				<i>"</i>

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/08/09 16:58

Total Metals by EPA 6000/7000 Series Methods

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0055-01 (AREA2-C1-14)		Soil		Sampled: 06/05/09 07:50						
Lead	EPA 6020	7.77	----	0.597	mg/kg dry	1x	9F05031	06/05/09 17:52	06/08/09 08:06	
BSF0055-02 (AREA2-C1-11)		Soil		Sampled: 06/05/09 07:55						
Lead	EPA 6020	14.9	----	0.567	mg/kg dry	1x	9F05031	06/05/09 17:52	06/08/09 08:12	
BSF0055-03 (AREA2-B1-14)		Soil		Sampled: 06/05/09 08:13						
Lead	EPA 6020	5.00	----	0.645	mg/kg dry	1x	9F05031	06/05/09 17:52	06/08/09 08:37	
BSF0055-04 (AREA2-B1-11)		Soil		Sampled: 06/05/09 08:18						
Lead	EPA 6020	15.2	----	0.631	mg/kg dry	1x	9F05031	06/05/09 17:52	06/08/09 08:44	
BSF0055-05 (AREA2-A1-14)		Soil		Sampled: 06/05/09 08:25						
Lead	EPA 6020	12.8	----	0.576	mg/kg dry	1x	9F05031	06/05/09 17:52	06/08/09 08:50	
BSF0055-06 (AREA2-A1-11)		Soil		Sampled: 06/05/09 08:30						
Lead	EPA 6020	53.3	----	0.667	mg/kg dry	1x	9F05031	06/05/09 17:52	06/08/09 08:56	

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/08/09 16:58

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSF0055-01 (AREA2-C1-14)		Soil			Sampled: 06/05/09 07:50					
Benzene	EPA 8260B	ND	----	0.00106	mg/kg dry	1x	9F05027	06/05/09 16:46	06/05/09 19:20	
Ethylbenzene	"	0.0327	----	0.00283	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000707	"	"	"	"	"	
Naphthalene	"	0.0581	----	0.00707	"	"	"	"	"	
Toluene	"	0.00119	----	0.00106	"	"	"	"	"	
o-Xylene	"	0.00903	----	0.00353	"	"	"	"	"	
m,p-Xylene	"	0.0643	----	0.00353	"	"	"	"	"	
Total Xylenes	"	0.0733	----	0.00707	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			95.4%		70 - 140 %	"				"
Toluene-d8			100%		70 - 130 %	"				"
4-BFB			91.3%		70 - 130 %	"				"

BSF0055-02 (AREA2-C1-11)		Soil			Sampled: 06/05/09 07:55					
Benzene	EPA 8260B	ND	----	0.000955	mg/kg dry	1x	9F05027	06/05/09 16:46	06/05/09 19:46	
Ethylbenzene	"	0.0168	----	0.00255	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000637	"	"	"	"	"	
Naphthalene	"	0.0121	----	0.00637	"	"	"	"	"	
Toluene	"	0.00138	----	0.000955	"	"	"	"	"	
o-Xylene	"	0.0123	----	0.00318	"	"	"	"	"	
m,p-Xylene	"	0.0470	----	0.00318	"	"	"	"	"	
Total Xylenes	"	0.0593	----	0.00637	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			90.8%		70 - 140 %	"				"
Toluene-d8			98.4%		70 - 130 %	"				"
4-BFB			97.3%		70 - 130 %	"				"

BSF0055-03 (AREA2-B1-14)		Soil			Sampled: 06/05/09 08:13					
Benzene	EPA 8260B	ND	----	0.00119	mg/kg dry	1x	9F05027	06/05/09 16:46	06/05/09 20:11	
Ethylbenzene	"	ND	----	0.00316	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000791	"	"	"	"	"	
Naphthalene	"	ND	----	0.00791	"	"	"	"	"	
Toluene	"	ND	----	0.00119	"	"	"	"	"	
o-Xylene	"	ND	----	0.00395	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00395	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00791	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			87.1%		70 - 140 %	"				"
Toluene-d8			99.0%		70 - 130 %	"				"
4-BFB			99.0%		70 - 130 %	"				"

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Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/08/09 16:58

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSF0055-04 (AREA2-B1-11)

Soil

Sampled: 06/05/09 08:18

Benzene	EPA 8260B	ND	----	0.00105	mg/kg dry	1x	9F05027	06/05/09 16:46	06/05/09 20:36	
Ethylbenzene	"	ND	----	0.00281	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000703	"	"	"	"	"	
Naphthalene	"	ND	----	0.00703	"	"	"	"	"	
Toluene	"	ND	----	0.00105	"	"	"	"	"	
o-Xylene	"	ND	----	0.00351	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00351	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00703	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	86.2%		70 - 140 %	"					
	Toluene-d8	103%		70 - 130 %	"					
	4-BFB	101%		70 - 130 %	"					

BSF0055-05 (AREA2-A1-14)

Soil

Sampled: 06/05/09 08:25

Benzene	EPA 8260B	ND	----	0.000966	mg/kg dry	1x	9F05027	06/05/09 16:46	06/05/09 21:03	
Ethylbenzene	"	ND	----	0.00258	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000644	"	"	"	"	"	
Naphthalene	"	ND	----	0.00644	"	"	"	"	"	
Toluene	"	ND	----	0.000966	"	"	"	"	"	
o-Xylene	"	ND	----	0.00322	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00322	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00644	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	101%		70 - 140 %	"					
	Toluene-d8	95.4%		70 - 130 %	"					
	4-BFB	94.0%		70 - 130 %	"					

BSF0055-06 (AREA2-A1-11)

Soil

Sampled: 06/05/09 08:30

Benzene	EPA 8260B	ND	----	0.00118	mg/kg dry	1x	9F05027	06/05/09 16:46	06/05/09 21:28	
Ethylbenzene	"	ND	----	0.00315	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000789	"	"	"	"	"	
Naphthalene	"	ND	----	0.00789	"	"	"	"	"	
Toluene	"	ND	----	0.00118	"	"	"	"	"	
o-Xylene	"	ND	----	0.00394	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00394	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00789	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	95.9%		70 - 140 %	"					
	Toluene-d8	98.1%		70 - 130 %	"					
	4-BFB	101%		70 - 130 %	"					

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/08/09 16:58

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0055-01 (AREA2-C1-14)		Soil								Sampled: 06/05/09 07:50
Dry Weight	BSOPSP003R0 8	79.8	----	1.00	%	1x	9F05013	06/05/09 15:00	06/08/09 00:00	
BSF0055-02 (AREA2-C1-11)		Soil								Sampled: 06/05/09 07:55
Dry Weight	BSOPSP003R0 8	84.0	----	1.00	%	1x	9F05013	06/05/09 15:00	06/08/09 00:00	
BSF0055-03 (AREA2-B1-14)		Soil								Sampled: 06/05/09 08:13
Dry Weight	BSOPSP003R0 8	77.5	----	1.00	%	1x	9F05013	06/05/09 15:00	06/08/09 00:00	
BSF0055-04 (AREA2-B1-11)		Soil								Sampled: 06/05/09 08:18
Dry Weight	BSOPSP003R0 8	77.7	----	1.00	%	1x	9F05013	06/05/09 15:00	06/08/09 00:00	
BSF0055-05 (AREA2-A1-14)		Soil								Sampled: 06/05/09 08:25
Dry Weight	BSOPSP003R0 8	82.6	----	1.00	%	1x	9F05013	06/05/09 15:00	06/08/09 00:00	
BSF0055-06 (AREA2-A1-11)		Soil								Sampled: 06/05/09 08:30
Dry Weight	BSOPSP003R0 8	76.5	----	1.00	%	1x	9F05013	06/05/09 15:00	06/08/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F05028 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F05028-BLK1)										Extracted: 06/05/09 17:01				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/05/09 17:02	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 80.3%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/05/09 17:02</i>
LCS (9F05028-BS1)										Extracted: 06/05/09 17:01				
Gasoline Range Hydrocarbons	NWTPH-Gx	51.3	1.40	5.00	mg/kg wet	1x	--	50.0	103%	(80-120)	--	--	06/05/09 17:35	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 93.2%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/05/09 17:35</i>
Duplicate (9F05028-DUP1)										QC Source: BSF0055-06		Extracted: 06/05/09 17:01		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.98	7.06	mg/kg dry	1x	ND	--	--	--	NR (40)		06/05/09 21:22	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 107%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/05/09 21:22</i>
Matrix Spike (9F05028-MS1)										QC Source: BSF0055-06		Extracted: 06/05/09 17:01		
Gasoline Range Hydrocarbons	NWTPH-Gx	73.3	1.98	7.06	mg/kg dry	1x	ND	55.2	133%	(75-130)	--	--	06/05/09 21:55	M1
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 119%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/05/09 21:55</i>

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F05014 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F05014-BLK1)

Extracted: 06/05/09 12:42

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/05/09 18:31	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>85.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/05/09 18:31</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>96.0%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9F05014-BS1)

Extracted: 06/05/09 12:42

Lube Oil	NWTPH-Dx	65.6	---	25.0	mg/kg wet	1x	--	66.7	98.4%	(63-125)	--	--	06/05/09 18:52	
Diesel Range Hydrocarbons	"	66.1	---	10.0	"	"	--	"	99.2%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/05/09 18:52</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>92.4%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9F05014-DUP1)

QC Source: BSF0055-01

Extracted: 06/05/09 12:42

Lube Oil	NWTPH-Dx	ND	---	31.0	mg/kg dry	1x	ND	--	--	--	3.52% (50)	--	06/05/09 19:15	
Kerosene	"	ND	---	12.4	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.4	"	"	ND	--	--	--	"	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/05/09 19:15</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>96.4%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9F05014-MS1)

QC Source: BSF0055-01

Extracted: 06/05/09 12:42

Lube Oil	NWTPH-Dx	83.0	---	31.0	mg/kg dry	1x	6.93	82.7	91.9%	(26-150)	--	--	06/05/09 19:36	
Diesel Range Hydrocarbons	"	80.6	---	12.4	"	"	ND	"	97.5%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/05/09 19:36</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>90.1%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/08/09 16:58
--	---	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F05031 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F05031-BLK1)								Extracted: 06/05/09 17:52						
Lead	EPA 6020	ND	---	0.485	mg/kg wet	1x	--	--	--	--	--	--	06/08/09 07:35	
LCS (9F05031-BS1)								Extracted: 06/05/09 17:52						
Lead	EPA 6020	39.0	---	0.500	mg/kg wet	1x	--	40.0	97.6%	(80-120)	--	--	06/08/09 07:41	
Duplicate (9F05031-DUP1)				QC Source: BSF0055-01				Extracted: 06/05/09 17:52						
Lead	EPA 6020	8.17	---	0.626	mg/kg dry	1x	7.77	--	--	--	4.95% (20)	--	06/08/09 08:00	
Matrix Spike (9F05031-MS1)				QC Source: BSF0055-01				Extracted: 06/05/09 17:52						
Lead	EPA 6020	58.5	---	0.620	mg/kg dry	1x	7.77	49.6	102%	(75-125)	--	--	06/08/09 07:53	
Post Spike (9F05031-PS1)				QC Source: BSF0055-01				Extracted: 06/05/09 17:52						
Lead	EPA 6020	0.113	---		ug/ml	1x	0.0130	0.100	100%	(80-120)	--	--	06/08/09 07:47	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/08/09 16:58
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F05027 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F05027-BLK1)													Extracted: 06/05/09 16:46			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/05/09 18:55			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 94.6%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/05/09 18:55</i>
<i>Toluene-d8</i>													<i>93.6%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>94.5%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9F05027-BS1)													Extracted: 06/05/09 16:46			
Benzene	EPA 8260B	0.0578	---	0.00150	mg/kg wet	1x	--	0.0500	116%	(70-125)	--	--	06/05/09 18:03			
Ethylbenzene	"	0.0440	---	0.00400	"	"	--	"	88.1%	"	--	--	"			
Methyl tert-butyl ether	"	0.0519	---	0.00100	"	"	--	"	104%	(70-130)	--	--	"			
Naphthalene	"	0.0533	---	0.0100	"	"	--	"	107%	"	--	--	"			
Toluene	"	0.0473	---	0.00150	"	"	--	"	94.6%	(70-125)	--	--	"			
Total Xylenes	"	0.132	---	0.0100	"	"	--	0.150	87.9%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 73.4%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/05/09 18:03</i>
<i>Toluene-d8</i>													<i>98.1%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>94.2%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9F05027-BSD1)													Extracted: 06/05/09 16:46			
Benzene	EPA 8260B	0.0593	---	0.00150	mg/kg wet	1x	--	0.0500	119%	(70-125)	2.55% (30)		06/05/09 18:29			
Ethylbenzene	"	0.0454	---	0.00400	"	"	--	"	90.8%	"	3.04%	"	"			
Methyl tert-butyl ether	"	0.0523	---	0.00100	"	"	--	"	105%	(70-130)	0.672%	"	"			
Naphthalene	"	0.0516	---	0.0100	"	"	--	"	103%	"	3.30%	"	"			
Toluene	"	0.0505	---	0.00150	"	"	--	"	101%	(70-125)	6.42%	"	"			
Total Xylenes	"	0.134	---	0.0100	"	"	--	0.150	89.4%	(70-130)	1.65%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 72.9%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/05/09 18:29</i>
<i>Toluene-d8</i>													<i>99.6%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>92.4%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/08/09 16:58
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F05013 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F05013-BLK1)										Extracted: 06/05/09 12:41				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/08/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/08/09 16:58

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/08/09 16:58

Notes and Definitions

Report Specific Notes:

- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSFOSS**

CLIENT: Genac Phillips		INVOICE TO: CP		TURNAROUND REQUEST			
REPORT TO: WMCP STAFF		P.O. NUMBER:		in Business Days *			
ADDRESS:		PRESERVATIVE		Organic & Inorganic Analyses			
PHONE:		REQUESTED ANALYSES		Petroleum Hydrocarbon Analyses			
PROJECT NAME: WMCP PHASE II				STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1			
PROJECT NUMBER:				STD. <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1			
SAMPLED BY: Demetrio Cobanillas				OTHER Specify: 24 HR			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 AREA 2-C1-14	06-05-09 / 0750	X	X	S	4	Silty Sand MO = 1.9	-01
2 AREA 2-C1-11	0755	X	X	↓	4	Silty Sand MO = 0.6	-02
3 AREA 2-B1-14	0813	X	X		4	Silty Sand MO = 0.3	-03
4 AREA 2-B1-11	0818	X	X		4	Silty Sand MO = 0.5	-04
5 AREA 2-A1-14	0825	X	X		4	Silty Sand MO = 0.2	-05
6 AREA 2-A1-11	0830	X	X		4	Silty Sand MO = 0.3	-06
7							
8							
9							
10							
RELEASED BY: Demetrio Cobanillas		DATE: 6-5-09	TIME: 1400	RECEIVED BY: Francisco Lang, Jr.		DATE: 6/5/09	TIME: 1400
PRINT NAME: Demetrio Cobanillas		FIRM: URS Corporation	FIRM: URS Corporation	PRINT NAME: Francisco Lang, Jr.		FIRM: TA-SEA	FIRM: TA-SEA
RELEASED BY:		DATE:	TIME:	RECEIVED BY:		DATE:	TIME:
PRINT NAME:		FIRM:	FIRM:	PRINT NAME:		DATE:	TIME:
ADDITIONAL REMARKS:				PRINT NAME:		DATE:	TIME:
				TEMP: 8.8°C		PAGE 1 OF 1	

Rush

TAT: _____ Paperwork to PM - Date: _____ Time: _____ Non-Conformances? Circle Y or N (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: (applies to temp at receipt) Logged-in By: Unpacked/Labeled by: Label Review by: Cooler ID: _____ Date: 6/5/09 Date: 6/5/09 Date: 6/5/09 Date: _____ Work Order No. BSK0055 Time: 1515 Time: 1616 Time: 1632 Time: _____ Client: _____ Initials: FL Initials: FL Initials: FS Initials: _____ Project: _____

Container Type: X Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam _____ Box _____ On Bottles _____ Date _____ X Foam Packs _____ None/Other _____ X None _____ None/Other _____

Refrigerant: X Gel Ice Pack under samples _____ Loose Ice _____ None/Other _____ Soil Stir Bars/Encores: Placed in freezer #46: Y or N or NA Initial/date/time _____ Received Via: Bill#: _____ Fed Ex _____ Client _____ UPS X TA Courier _____ DHL _____ Mid Valley _____ Senvoy _____ TDP _____ GS _____ Other _____

Cooler Temperature (IR): 8.8 °C Plastic Glass (circle one) (Frozen filters, Tedlars and aqueous Metals exempt) Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes: (initial/date/time): _____ Comments: _____

Sample Containers: Intact? Y or N _____ Metals Preserved? Y or N or NA _____ Provided by TA? Y or N _____ Client QAPP Preserved? Y or N or NA _____ Correct Type? Y or N _____ Adequate Volume? Y or N _____ (for tests requested) #Containers match COC? Y or N _____ Water VOAs: Headspace? Y or N or NA _____ IDs/time/date match COC? Y or N _____ Comments: _____ Hold Times in hold? Y or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? Y or N

June 09, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/08/09 15:20.
The following list is a summary of the Work Orders contained in this report, generated on 06/09/09
16:23.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0080	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/09/09 16:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area2-A2-14	BSF0080-01	Soil	06/08/09 13:40	06/08/09 15:20
Area2-A3-14	BSF0080-02	Soil	06/08/09 13:50	06/08/09 15:20
Area2-B2-14	BSF0080-03	Soil	06/08/09 14:00	06/08/09 15:20
Area2-C2-14	BSF0080-04	Soil	06/08/09 14:10	06/08/09 15:20
DUP-19	BSF0080-05	Soil	06/08/09 14:20	06/08/09 15:20

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/09/09 16:23

Analytical Case Narrative

TestAmerica - Seattle, WA

BSF0080

SAMPLE RECEIPT

The samples were received 06/08/2009 by TestAmerica - Seattle. The temperature of the samples at the time of receipt was 9.8 degrees Celsius which is outside the recommended temperature range of 2-6 Degrees Celsius. The samples are considered acceptable as they were received on-ice within four hours of the collection of the last sampled time on the COC.

The stir bar vials submitted for sample AREA2-C2-14 have a sampled time listed as 1400 on the sample labels, however the COC lists the sampled time as 1410. The samples were logged in per the COC.

PREPARATIONS AND ANALYSIS

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/09/09 16:23
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Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0080-01 (Area2-A2-14)		Soil		Sampled: 06/08/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	6.87	1.85	6.59	mg/kg dry	1x	9F08028	06/08/09 15:50	06/08/09 23:26	MI
Surrogate(s): 4-BFB (FID)			118%		75 - 140 %	"			"	
BSF0080-02 (Area2-A3-14)		Soil		Sampled: 06/08/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	17.4	1.57	5.62	mg/kg dry	1x	9F08028	06/08/09 15:50	06/09/09 01:05	
Surrogate(s): 4-BFB (FID)			120%		75 - 140 %	"			"	
BSF0080-03 (Area2-B2-14)		Soil		Sampled: 06/08/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	1090	19.2	68.4	mg/kg dry	10x	9F08028	06/08/09 15:50	06/09/09 08:23	
Surrogate(s): 4-BFB (FID)			126%		75 - 140 %	1x			"	
BSF0080-04 (Area2-C2-14)		Soil		Sampled: 06/08/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	3.72	1.54	5.49	mg/kg dry	1x	9F08028	06/08/09 15:50	06/09/09 02:11	J
Surrogate(s): 4-BFB (FID)			107%		75 - 140 %	"			"	
BSF0080-05 (DUP-19)		Soil		Sampled: 06/08/09 14:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	1040	18.8	67.2	mg/kg dry	10x	9F08028	06/08/09 15:50	06/09/09 08:56	
Surrogate(s): 4-BFB (FID)			130%		75 - 140 %	1x			"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/09/09 16:23
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0080-01 (Area2-A2-14)		Soil		Sampled: 06/08/09 13:40						
Lube Oil	NWTPH-Dx	ND	----	31.8	mg/kg dry	1x	9F08020	06/08/09 14:42	06/09/09 01:49	
Kerosene	"	ND	----	12.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			71.2%		54 - 148 %	"				"
<i>Octacosane</i>			90.4%		62 - 142 %	"				"
BSF0080-02 (Area2-A3-14)		Soil		Sampled: 06/08/09 13:50						
Lube Oil	NWTPH-Dx	ND	----	30.7	mg/kg dry	1x	9F08020	06/08/09 14:42	06/09/09 02:12	
Kerosene	"	ND	----	12.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			75.7%		54 - 148 %	"				"
<i>Octacosane</i>			99.2%		62 - 142 %	"				"
BSF0080-03 (Area2-B2-14)		Soil		Sampled: 06/08/09 14:00						
Lube Oil	NWTPH-Dx	ND	----	31.5	mg/kg dry	1x	9F08020	06/08/09 14:42	06/09/09 02:34	
Kerosene	"	37.5	----	12.6	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	ND	----	12.6	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			83.5%		54 - 148 %	"				"
<i>Octacosane</i>			94.8%		62 - 142 %	"				"
BSF0080-04 (Area2-C2-14)		Soil		Sampled: 06/08/09 14:10						
Lube Oil	NWTPH-Dx	ND	----	29.9	mg/kg dry	1x	9F08020	06/08/09 14:42	06/09/09 02:57	
Kerosene	"	ND	----	12.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			82.4%		54 - 148 %	"				"
<i>Octacosane</i>			96.6%		62 - 142 %	"				"
BSF0080-05 (DUP-19)		Soil		Sampled: 06/08/09 14:20						
Lube Oil	NWTPH-Dx	ND	----	31.8	mg/kg dry	1x	9F08020	06/08/09 14:42	06/09/09 03:20	
Kerosene	"	65.4	----	12.7	"	"	"	"	"	Q1
Diesel Range Hydrocarbons	"	13.7	----	12.7	"	"	"	"	"	Q5
<i>Surrogate(s): 2-FBP</i>			86.2%		54 - 148 %	"				"
<i>Octacosane</i>			93.8%		62 - 142 %	"				"

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Kate Haney

Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0080-01 (Area2-A2-14)		Soil			Sampled: 06/08/09 13:40					
Lead	EPA 6020	15.6	----	0.610	mg/kg dry	1x	9F08049	06/08/09 17:59	06/09/09 09:08	
BSF0080-02 (Area2-A3-14)		Soil			Sampled: 06/08/09 13:50					
Lead	EPA 6020	12.6	----	0.513	mg/kg dry	1x	9F08049	06/08/09 17:59	06/09/09 09:14	
BSF0080-03 (Area2-B2-14)		Soil			Sampled: 06/08/09 14:00					
Lead	EPA 6020	16.5	----	0.634	mg/kg dry	1x	9F08049	06/08/09 17:59	06/09/09 09:39	
BSF0080-04 (Area2-C2-14)		Soil			Sampled: 06/08/09 14:10					
Lead	EPA 6020	5.41	----	0.586	mg/kg dry	1x	9F08049	06/08/09 17:59	06/09/09 09:45	
BSF0080-05 (DUP-19)		Soil			Sampled: 06/08/09 14:20					
Lead	EPA 6020	22.7	----	0.635	mg/kg dry	1x	9F08049	06/08/09 17:59	06/09/09 09:52	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSF0080-01 (Area2-A2-14)	Soil		Sampled: 06/08/09 13:40								P13
Benzene	EPA 8260B	0.0150	----	0.000830	mg/kg dry	1x	9F09002	06/09/09 07:20	06/09/09 09:28		
Ethylbenzene	"	0.0728	----	0.00221	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000553	"	"	"	"	"		
Naphthalene	"	0.0148	----	0.00553	"	"	"	"	"		
Toluene	"	0.0268	----	0.000830	"	"	"	"	"		
o-Xylene	"	0.0336	----	0.00277	"	"	"	"	"		
m,p-Xylene	"	0.123	----	0.00277	"	"	"	"	"		
Total Xylenes	"	0.157	----	0.00553	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			96.4%		70 - 140 %	"				"	
<i>Toluene-d8</i>			102%		70 - 130 %	"				"	
<i>4-BFB</i>			115%		70 - 130 %	"				"	

BSF0080-02 (Area2-A3-14)	Soil		Sampled: 06/08/09 13:50								P13
Benzene	EPA 8260B	0.0298	----	0.000750	mg/kg dry	1x	9F09002	06/09/09 07:20	06/09/09 09:54		
Ethylbenzene	"	0.0885	----	0.00200	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000500	"	"	"	"	"		
Toluene	"	0.0361	----	0.000750	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			93.9%		70 - 140 %	"				"	
<i>Toluene-d8</i>			102%		70 - 130 %	"				"	
<i>4-BFB</i>			106%		70 - 130 %	"				"	

BSF0080-03 (Area2-B2-14)	Soil		Sampled: 06/08/09 14:00								
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000679	mg/kg dry	1x	9F09002	06/09/09 07:20	06/09/09 10:20		
<i>Surrogate(s): 1,2-DCA-d4</i>			133%		70 - 140 %	"				"	
<i>Toluene-d8</i>			132%		70 - 130 %	"				ZX	
<i>4-BFB</i>			222%		70 - 130 %	"				I, ZX	

BSF0080-04 (Area2-C2-14)	Soil		Sampled: 06/08/09 14:10								P13
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000559	mg/kg dry	1x	9F09002	06/09/09 07:20	06/09/09 10:45		
<i>Surrogate(s): 1,2-DCA-d4</i>			91.6%		70 - 140 %	"				"	
<i>Toluene-d8</i>			97.2%		70 - 130 %	"				"	
<i>4-BFB</i>			97.0%		70 - 130 %	"				"	

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Kate Haney, Project Manager

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0080-04RE1 (Area2-C2-14)		Soil		Sampled: 06/08/09 14:10						P13
Benzene	EPA 8260B	0.00138	----	0.000868	mg/kg dry	1x	9F09002	06/09/09 07:20	06/09/09 12:53	
Ethylbenzene	"	0.0964	----	0.00231	"	"	"	"	"	
Toluene	"	0.00767	----	0.000868	"	"	"	"	"	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>92.9%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>	
	<i>Toluene-d8</i>	<i>102%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	
	<i>4-BFB</i>	<i>100%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	

BSF0080-05 (DUP-19)		Soil		Sampled: 06/08/09 14:20						P13
Methyl tert-butyl ether	EPA 8260B	ND	----	0.000581	mg/kg dry	1x	9F09002	06/09/09 07:20	06/09/09 11:11	

<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>	<i>160%</i>		<i>70 - 140 %</i>	<i>"</i>				<i>"</i>	ZX
	<i>Toluene-d8</i>	<i>141%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	ZX
	<i>4-BFB</i>	<i>514%</i>		<i>70 - 130 %</i>	<i>"</i>				<i>"</i>	I, ZX

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0080-02 (Area2-A3-14)		Soil		Sampled: 06/08/09 13:50						
Naphthalene	EPA 8260B	ND	0.746	1.36	mg/kg dry	1x	9F09010	06/09/09 09:41	06/09/09 14:21	
o-Xylene	"	0.0753	0.0115	0.0678	"	"	"	"	"	
m,p-Xylene	"	0.335	0.0142	0.136	"	"	"	"	"	
Xylenes (total)	"	0.410	0.0210	0.203	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			97.8%		75 - 125 %	"				"
<i>Toluene-d8</i>			101%		75 - 125 %	"				"
<i>4-BFB</i>			94.1%		75 - 125 %	"				"
BSF0080-03 (Area2-B2-14)		Soil		Sampled: 06/08/09 14:00						
Naphthalene	EPA 8260B	5.94	1.51	2.74	mg/kg dry	1x	9F09010	06/09/09 09:41	06/09/09 12:07	
<i>Surrogate(s): 1,2-DCA-d4</i>			122%		75 - 125 %	"				"
<i>Toluene-d8</i>			96.9%		75 - 125 %	"				"
<i>4-BFB</i>			107%		75 - 125 %	"				"
BSF0080-03RE1 (Area2-B2-14)		Soil		Sampled: 06/08/09 14:00						
Benzene	EPA 8260B	12.1	0.137	0.274	mg/kg dry	10x	9F09010	06/09/09 09:41	06/09/09 13:27	
Ethylbenzene	"	17.5	0.164	1.37	"	"	"	"	"	
Toluene	"	36.8	0.137	1.37	"	"	"	"	"	
o-Xylene	"	24.4	0.233	1.37	"	"	"	"	"	
m,p-Xylene	"	64.2	0.287	2.74	"	"	"	"	"	
Xylenes (total)	"	88.6	0.424	4.11	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			94.6%		75 - 125 %	1x				"
<i>Toluene-d8</i>			94.4%		75 - 125 %	"				"
<i>4-BFB</i>			101%		75 - 125 %	"				"
BSF0080-04 (Area2-C2-14)		Soil		Sampled: 06/08/09 14:10						
Naphthalene	EPA 8260B	ND	0.723	1.31	mg/kg dry	1x	9F09010	06/09/09 09:41	06/09/09 14:48	
o-Xylene	"	ND	0.0112	0.0657	"	"	"	"	"	
m,p-Xylene	"	0.0269	0.0138	0.131	"	"	"	"	"	J
Xylenes (total)	"	0.0348	0.0204	0.197	"	"	"	"	"	J
<i>Surrogate(s): 1,2-DCA-d4</i>			98.8%		75 - 125 %	"				"
<i>Toluene-d8</i>			102%		75 - 125 %	"				"
<i>4-BFB</i>			96.3%		75 - 125 %	"				"

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0080-05 (DUP-19)		Soil			Sampled: 06/08/09 14:20					
Benzene	EPA 8260B	11.2	0.0134	0.0269	mg/kg dry	1x	9F09010	06/09/09 09:41	06/09/09 12:34	
Naphthalene	"	6.30	1.48	2.69	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		114%		75 - 125 %	"				"
	<i>Toluene-d8</i>		96.0%		75 - 125 %	"				"
	<i>4-BFB</i>		105%		75 - 125 %	"				"
BSF0080-05RE1 (DUP-19)		Soil			Sampled: 06/08/09 14:20					
Ethylbenzene	EPA 8260B	16.2	0.161	1.34	mg/kg dry	10x	9F09010	06/09/09 09:41	06/09/09 13:54	
Toluene	"	33.0	0.134	1.34	"	"	"	"	"	
o-Xylene	"	23.2	0.228	1.34	"	"	"	"	"	
m,p-Xylene	"	61.0	0.282	2.69	"	"	"	"	"	
Xylenes (total)	"	84.2	0.416	4.03	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>		98.8%		75 - 125 %	1x				"
	<i>Toluene-d8</i>		98.8%		75 - 125 %	"				"
	<i>4-BFB</i>		97.8%		75 - 125 %	"				"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/09/09 16:23

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0080-01 (Area2-A2-14)		Soil								Sampled: 06/08/09 13:40
Dry Weight	BSOPSP003R0 8	77.3	----	1.00	%	1x	9F08034	06/08/09 15:23	06/09/09 00:00	
BSF0080-02 (Area2-A3-14)		Soil								Sampled: 06/08/09 13:50
Dry Weight	BSOPSP003R0 8	81.1	----	1.00	%	1x	9F08034	06/08/09 15:23	06/09/09 00:00	
BSF0080-03 (Area2-B2-14)		Soil								Sampled: 06/08/09 14:00
Dry Weight	BSOPSP003R0 8	78.1	----	1.00	%	1x	9F08034	06/08/09 15:23	06/09/09 00:00	
BSF0080-04 (Area2-C2-14)		Soil								Sampled: 06/08/09 14:10
Dry Weight	BSOPSP003R0 8	83.7	----	1.00	%	1x	9F08034	06/08/09 15:23	06/09/09 00:00	
BSF0080-05 (DUP-19)		Soil								Sampled: 06/08/09 14:20
Dry Weight	BSOPSP003R0 8	77.3	----	1.00	%	1x	9F08034	06/08/09 15:23	06/09/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F08028 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F08028-BLK1)										Extracted: 06/08/09 14:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/08/09 14:39	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 86.7%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/08/09 14:39</i>
LCS (9F08028-BS1)										Extracted: 06/08/09 14:00				
Gasoline Range Hydrocarbons	NWTPH-Gx	52.4	1.40	5.00	mg/kg wet	1x	--	50.0	105%	(80-120)	--	--	06/08/09 15:12	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.8%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/08/09 15:12</i>
Duplicate (9F08028-DUP1)										QC Source: BSF0078-01		Extracted: 06/08/09 14:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.26	4.49	mg/kg dry	1x	ND	--	--	--	NR (40)		06/08/09 16:50	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 101%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/08/09 16:50</i>
Duplicate (9F08028-DUP2)										QC Source: BSF0080-01		Extracted: 06/08/09 14:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	6.86	1.85	6.59	mg/kg dry	1x	6.87	--	--	--	0.174% (40)		06/08/09 23:59	
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 118%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/08/09 23:59</i>
Matrix Spike (9F08028-MS1)										QC Source: BSF0080-01		Extracted: 06/08/09 14:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	85.8	1.85	6.59	mg/kg dry	1x	6.87	51.3	154%	(75-130)	--	--	06/09/09 00:32	MI
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 132%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/09/09 00:32</i>

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F08020 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F08020-BLK1)

Extracted: 06/08/09 14:42

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/08/09 19:07	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/08/09 19:07</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>94.5%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9F08020-BS1)

Extracted: 06/08/09 14:42

Lube Oil	NWTPH-Dx	66.0	---	25.0	mg/kg wet	1x	--	66.7	98.9%	(63-125)	--	--	06/08/09 19:29	
Diesel Range Hydrocarbons	"	64.3	---	10.0	"	"	--	"	96.4%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>83.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/08/09 19:29</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>89.7%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9F08020-DUP1)

QC Source: BSF0078-01

Extracted: 06/08/09 14:42

Lube Oil	NWTPH-Dx	ND	---	27.4	mg/kg dry	1x	ND	--	--	--	42.5%	(50)	06/08/09 19:52	
Kerosene	"	ND	---	11.0	"	"	ND	--	--	--	24.5%	"	"	
Diesel Range Hydrocarbons	"	ND	---	11.0	"	"	ND	--	--	--	19.4%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>79.5%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/08/09 19:52</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>93.0%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9F08020-DUP2)

QC Source: BSF0080-02

Extracted: 06/08/09 14:42

Lube Oil	NWTPH-Dx	ND	---	30.6	mg/kg dry	1x	ND	--	--	--	41.5%	(50)	06/08/09 20:14	R4
Kerosene	"	ND	---	12.2	"	"	ND	--	--	--	"	"	"	R4
Diesel Range Hydrocarbons	"	ND	---	12.2	"	"	ND	--	--	--	100%	"	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>79.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/08/09 20:14</i>	
<i>Octacosane</i>		<i>Recovery:</i>	<i>96.0%</i>	<i>Limits: 62-142%</i>		<i>"</i>							<i>"</i>	

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F08049	Soil Preparation Method: EPA 3050B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F08049-BLK1)								Extracted: 06/08/09 17:59						
Lead	EPA 6020	ND	---	0.481	mg/kg wet	1x	--	--	--	--	--	--	06/09/09 08:36	
LCS (9F08049-BS1)								Extracted: 06/08/09 17:59						
Lead	EPA 6020	37.5	---	0.472	mg/kg wet	1x	--	37.7	99.4%	(80-120)	--	--	06/09/09 08:42	
Duplicate (9F08049-DUP1)				QC Source: BSF0080-01				Extracted: 06/08/09 17:59						
Lead	EPA 6020	17.9	---	0.610	mg/kg dry	1x	15.6	--	--	--	14.0% (20)	--	06/09/09 08:55	
Matrix Spike (9F08049-MS1)				QC Source: BSF0080-01				Extracted: 06/08/09 17:59						
Lead	EPA 6020	64.2	---	0.588	mg/kg dry	1x	15.6	47.0	104%	(75-125)	--	--	06/09/09 08:49	
Post Spike (9F08049-PS1)				QC Source: BSF0080-01				Extracted: 06/08/09 17:59						
Lead	EPA 6020	0.124	---		ug/ml	1x	0.0255	0.100	98.9%	(80-120)	--	--	06/09/09 09:01	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/09/09 16:23
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F09002 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F09002-BLK1)													Extracted: 06/09/09 07:20			
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/09/09 09:02			
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"			
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"			
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"			
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"			
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 88.2%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/09/09 09:02</i>
<i>Toluene-d8</i>													<i>94.0%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>96.8%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS (9F09002-BS1)													Extracted: 06/09/09 07:20			
Benzene	EPA 8260B	0.0518	---	0.00150	mg/kg wet	1x	--	0.0500	104%	(70-125)	--	--	06/09/09 08:10			
Ethylbenzene	"	0.0424	---	0.00400	"	"	--	"	84.7%	"	--	--	"			
Methyl tert-butyl ether	"	0.0533	---	0.00100	"	"	--	"	107%	(70-130)	--	--	"			
Naphthalene	"	0.0582	---	0.0100	"	"	--	"	116%	"	--	--	"			
Toluene	"	0.0433	---	0.00150	"	"	--	"	86.6%	(70-125)	--	--	"			
Total Xylenes	"	0.125	---	0.0100	"	"	--	0.150	83.1%	(70-130)	--	--	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 90.8%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/09/09 08:10</i>
<i>Toluene-d8</i>													<i>96.3%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>94.7%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

LCS Dup (9F09002-BSD1)													Extracted: 06/09/09 07:20			
Benzene	EPA 8260B	0.0548	---	0.00150	mg/kg wet	1x	--	0.0500	110%	(70-125)	5.48% (30)		06/09/09 08:36			
Ethylbenzene	"	0.0463	---	0.00400	"	"	--	"	92.7%	"	8.93%	"	"			
Methyl tert-butyl ether	"	0.0510	---	0.00100	"	"	--	"	102%	(70-130)	4.47%	"	"			
Naphthalene	"	0.0542	---	0.0100	"	"	--	"	108%	"	7.01%	"	"			
Toluene	"	0.0462	---	0.00150	"	"	--	"	92.3%	(70-125)	6.35%	"	"			
Total Xylenes	"	0.137	---	0.0100	"	"	--	0.150	91.5%	(70-130)	9.62%	"	"			
<i>Surrogate(s): 1,2-DCA-d4</i>													<i>Recovery: 86.6%</i>	<i>Limits: 70-140%</i>	<i>"</i>	<i>06/09/09 08:36</i>
<i>Toluene-d8</i>													<i>92.5%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>
<i>4-BFB</i>													<i>97.4%</i>	<i>70-130%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/09/09 16:23
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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F09010 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F09010-BLK1)													Extracted: 06/09/09 09:41	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	06/09/09 11:41	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 96.6% Limits: 75-125% "</i>														
<i>Toluene-d8 96.5% 75-125% "</i>														
<i>4-BFB 99.0% 75-125% "</i>														

LCS (9F09010-BS1)													Extracted: 06/09/09 09:41	
Benzene	EPA 8260B	3.99	0.0100	0.0200	mg/kg wet	1x	--	4.00	99.8%	(75-125)	--	--	06/09/09 10:13	
Ethylbenzene	"	4.06	0.0120	0.100	"	"	--	"	101%	"	--	--	"	
Methyl tert-butyl ether	"	4.49	0.0100	0.0500	"	"	--	"	112%	"	--	--	"	
Naphthalene	"	4.09	1.10	2.00	"	"	--	"	102%	(60-140)	--	--	"	
Toluene	"	3.89	0.0100	0.100	"	"	--	"	97.2%	(75-125)	--	--	"	
o-Xylene	"	4.08	0.0170	0.100	"	"	--	"	102%	"	--	--	"	
m,p-Xylene	"	7.91	0.0210	0.200	"	"	--	8.00	98.9%	"	--	--	"	
Xylenes (total)	"	12.0	0.0310	0.300	"	"	--	12.0	99.9%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 99.4% Limits: 75-125% "</i>														
<i>Toluene-d8 97.6% 75-125% "</i>														
<i>4-BFB 99.8% 75-125% "</i>														

LCS Dup (9F09010-BSD1)													Extracted: 06/09/09 09:41	
Benzene	EPA 8260B	3.88	0.0100	0.0200	mg/kg wet	1x	--	4.00	97.0%	(75-125)	2.74% (20)		06/09/09 10:40	
Ethylbenzene	"	4.06	0.0120	0.100	"	"	--	"	102%	"	0.0985%	"	"	
Methyl tert-butyl ether	"	4.48	0.0100	0.0500	"	"	--	"	112%	"	0.357%	"	"	
Naphthalene	"	4.26	1.10	2.00	"	"	--	"	107%	(60-140)	4.09%	"	"	
Toluene	"	3.81	0.0100	0.100	"	"	--	"	95.3%	(75-125)	1.97%	"	"	
o-Xylene	"	4.02	0.0170	0.100	"	"	--	"	101%	"	1.28%	"	"	
m,p-Xylene	"	7.80	0.0210	0.200	"	"	--	8.00	97.4%	"	1.49%	"	"	
Xylenes (total)	"	11.8	0.0310	0.300	"	"	--	12.0	98.5%	"	1.42%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 98.4% Limits: 75-125% "</i>														
<i>Toluene-d8 98.8% 75-125% "</i>														
<i>4-BFB 99.8% 75-125% "</i>														

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/09/09 16:23
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F08034 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F08034-BLK1)										Extracted: 06/08/09 15:23				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/09/09 00:00	

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Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/09/09 16:23

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/09/09 16:23

Notes and Definitions

Report Specific Notes:

- I - Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1 - The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q5 - Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Kate Haney, Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302
 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSF0080**

CLIENT: Conoco Phillips		INVOICE TO: CP	
REPORT TO: WMEP staff		PRESERVATIVE	
ADDRESS:		PO. NUMBER:	
PHONE:		REQUESTED ANALYSES	
PROJECT NAME: WMEP Phase II			
PROJECT NUMBER:			
SAMPLED BY: Matthew McKibbin			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		
1 A22-A2-14	6-8-09 / 1340	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2 " -A3-14	" / 1350	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3 B2-14	" / 1400	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4 C2-14	" / 1410	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5 Duf-19	" / 1420	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6			
7			
8			
9			
10			

RELEASED BY: **Matthew McKibbin** DATE: **6-8-09**
 PRINT NAME: **Matthew McKibbin** TIME: **1450**
 FIRM: **WAS**
 RECEIVED BY: **Tom Blankinship** DATE: **6/8/09**
 PRINT NAME: **Tom Blankinship** TIME: **1450**
 FIRM: **TA-S**
 RECEIVED BY: DATE: TIME: DATE: TIME:
 PRINT NAME: FIRM: FIRM: FIRM: FIRM:

ADDITIONAL REMARKS: **@ lab 1520**
 TEMP: **9.8** PAGE OF **9**
 w/o TAL-1000(0108)

TURNAROUND REQUEST
 in Business Days *
 Organic & Inorganic Analyses
 Petroleum Hydrocarbon Analyses

STD: 10 7 5 4 3 2 1 <1
 STD: 5 4 3 2 1 <1

OTHER Specify: **Ugh**

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
S	4	Gravelly silt	-01
		PIED = 9.8 ppm	
		Gravelly silt	-02
		36 ppm	
		Gravelly Sandy silt	-03
		340 ppm	
		Gravelly Sandy silt	-04
		2.5 ppm	
			-05

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances? _____
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ **Logged-in By:** _____ **Unpacked/ Labeled by:** _____ **Label Review by:** _____ **Cooler ID:** _____
 (applies to temp at receipt)

Date: 6/8/09 Date: 6/8 Date: 6/8 Date: _____ Work Order No. BSF0080
 Time: 1520 Time: 1530 Time: 1600 Time: _____ Client: _____
 Initials: TB Initials: TB Initials: TB Initials: _____ Project: _____

Container Type: _____ **COC Seals:** _____ **Packing Material:** _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam _____
 _____ Box _____ On Bottles _____ Date _____ Foam Packs _____
 _____ None/Other _____ None _____ None/Other plastic bags

Refrigerant: _____ **Soil Stir Bars/Encores:** _____ **Received Via: Bill#:** _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client _____
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier _____
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley _____
 _____ GS _____ Senvoy _____ TDP _____
 _____ Other _____

Cooler Temperature (IR): 2.8 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ **ID** _____ **ID** _____
 Intact? or N _____ Metals Preserved? Y or N or NA _____
 Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA _____
 Correct Type? or N _____ Adequate Volume? or N _____
 (for tests requested)
 #Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA _____
 IDs/time/date match COC? Y or N _____ Comments: _____
 Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

June 11, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/09/09 16:00.
The following list is a summary of the Work Orders contained in this report, generated on 06/11/09
16:25.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0089	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA2-E4-11	BSF0089-01	Soil	06/09/09 13:40	06/09/09 16:00
AREA2-F3-11.5	BSF0089-02	Soil	06/09/09 13:45	06/09/09 16:00
AREA2-F4-10.5	BSF0089-03	Soil	06/09/09 13:50	06/09/09 16:00
AREA2-F1-9	BSF0089-04	Soil	06/09/09 13:55	06/09/09 16:00
AREA2-G2-11	BSF0089-05	Soil	06/09/09 14:00	06/09/09 16:00
AREA2-G3-11	BSF0089-06	Soil	06/09/09 14:05	06/09/09 16:00
AREA2-H4-11	BSF0089-07	Soil	06/09/09 14:10	06/09/09 16:00

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:25
--	---	-----------------------------------

Volatile Petroleum Products by NWTPH-Gx
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0089-01 (AREA2-E4-11)		Soil		Sampled: 06/09/09 13:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	4.72	16.9	mg/kg dry	1x	9F09013	06/09/09 14:19	06/09/09 21:03	
Surrogate(s): 4-BFB (FID)			290%		75 - 140 %	"				ZX
BSF0089-02 (AREA2-F3-11.5)		Soil		Sampled: 06/09/09 13:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	6.68	23.9	mg/kg dry	1x	9F09013	06/09/09 14:19	06/09/09 21:36	
Surrogate(s): 4-BFB (FID)			336%		75 - 140 %	"				ZX
BSF0089-03 (AREA2-F4-10.5)		Soil		Sampled: 06/09/09 13:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	7.82	27.9	mg/kg dry	1x	9F09013	06/09/09 14:19	06/09/09 22:09	
Surrogate(s): 4-BFB (FID)			371%		75 - 140 %	"				ZX
BSF0089-04 (AREA2-F1-9)		Soil		Sampled: 06/09/09 13:55						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.53	9.02	mg/kg dry	1x	9F09013	06/09/09 14:19	06/10/09 08:36	
Surrogate(s): 4-BFB (FID)			279%		75 - 140 %	"				ZX
BSF0089-05 (AREA2-G2-11)		Soil		Sampled: 06/09/09 14:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.83	10.1	mg/kg dry	1x	9F09013	06/09/09 14:19	06/10/09 09:09	
Surrogate(s): 4-BFB (FID)			240%		75 - 140 %	"				ZX
BSF0089-06 (AREA2-G3-11)		Soil		Sampled: 06/09/09 14:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	4.09	14.6	mg/kg dry	1x	9F09013	06/09/09 14:19	06/10/09 09:42	
Surrogate(s): 4-BFB (FID)			252%		75 - 140 %	"				ZX
BSF0089-07 (AREA2-H4-11)		Soil		Sampled: 06/09/09 14:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	7.89	28.2	mg/kg dry	1x	9F09013	06/09/09 14:19	06/10/09 10:15	
Surrogate(s): 4-BFB (FID)			307%		75 - 140 %	"				ZX

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:25
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0089-01 (AREA2-E4-11)		Soil			Sampled: 06/09/09 13:40					
Lube Oil	NWTPH-Dx	73.3	----	57.5	mg/kg dry	1x	9F09019	06/09/09 14:15	06/09/09 20:54	Q1
Kerosene	"	ND	----	23.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	26.0	----	23.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			93.9%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSF0089-02 (AREA2-F3-11.5)		Soil			Sampled: 06/09/09 13:45					
Lube Oil	NWTPH-Dx	184	----	80.6	mg/kg dry	1x	9F09019	06/09/09 14:15	06/09/09 21:18	Q1
Kerosene	"	ND	----	32.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	73.4	----	32.3	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			94.5%		54 - 148 %	"				"
<i>Octacosane</i>			105%		62 - 142 %	"				"
BSF0089-03 (AREA2-F4-10.5)		Soil			Sampled: 06/09/09 13:50					
Lube Oil	NWTPH-Dx	ND	----	98.7	mg/kg dry	1x	9F09019	06/09/09 14:15	06/09/09 21:42	
Kerosene	"	ND	----	39.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	39.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.8%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"
BSF0089-04 (AREA2-F1-9)		Soil			Sampled: 06/09/09 13:55					
Lube Oil	NWTPH-Dx	ND	----	41.9	mg/kg dry	1x	9F09019	06/09/09 14:15	06/09/09 22:05	
Kerosene	"	ND	----	16.8	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	16.8	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.8%		54 - 148 %	"				"
<i>Octacosane</i>			114%		62 - 142 %	"				"
BSF0089-05 (AREA2-G2-11)		Soil			Sampled: 06/09/09 14:00					
Lube Oil	NWTPH-Dx	ND	----	38.5	mg/kg dry	1x	9F09019	06/09/09 14:15	06/09/09 22:29	
Kerosene	"	ND	----	15.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	15.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			93.2%		54 - 148 %	"				"
<i>Octacosane</i>			106%		62 - 142 %	"				"

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Kate Haney

Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:25

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0089-06 (AREA2-G3-11)		Soil		Sampled: 06/09/09 14:05						
Lube Oil	NWTPH-Dx	ND	----	47.2	mg/kg dry	1x	9F09019	06/09/09 14:15	06/10/09 00:29	
Kerosene	"	ND	----	18.9	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	18.9	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>			96.4%		54 - 148 %	"				"
<i>Octacosane</i>			110%		62 - 142 %	"				"
BSF0089-07 (AREA2-H4-11)		Soil		Sampled: 06/09/09 14:10						
Lube Oil	NWTPH-Dx	ND	----	84.7	mg/kg dry	1x	9F09019	06/09/09 14:15	06/10/09 00:53	
Kerosene	"	ND	----	33.9	"	"	"	"	"	"
Diesel Range Hydrocarbons	"	ND	----	33.9	"	"	"	"	"	"
<i>Surrogate(s): 2-FBP</i>			93.5%		54 - 148 %	"				"
<i>Octacosane</i>			107%		62 - 142 %	"				"

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Kate Haney, Project Manager

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:25

Total Metals by EPA 6000/7000 Series Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0089-01 (AREA2-E4-11)		Soil								Sampled: 06/09/09 13:40
Lead	EPA 6020	36.1	----	1.19	mg/kg dry	1x	9F09032	06/09/09 22:57	06/10/09 08:02	
BSF0089-02 (AREA2-F3-11.5)		Soil								Sampled: 06/09/09 13:45
Lead	EPA 6020	46.3	----	1.55	mg/kg dry	1x	9F09032	06/09/09 22:57	06/10/09 08:27	
BSF0089-03 (AREA2-F4-10.5)		Soil								Sampled: 06/09/09 13:50
Lead	EPA 6020	ND	----	1.90	mg/kg dry	1x	9F09032	06/09/09 22:57	06/10/09 08:33	
BSF0089-04 (AREA2-F1-9)		Soil								Sampled: 06/09/09 13:55
Lead	EPA 6020	12.3	----	0.816	mg/kg dry	1x	9F09032	06/09/09 22:57	06/10/09 08:40	
BSF0089-05 (AREA2-G2-11)		Soil								Sampled: 06/09/09 14:00
Lead	EPA 6020	0.791	----	0.746	mg/kg dry	1x	9F09032	06/09/09 22:57	06/10/09 08:46	
BSF0089-06 (AREA2-G3-11)		Soil								Sampled: 06/09/09 14:05
Lead	EPA 6020	23.9	----	0.929	mg/kg dry	1x	9F09032	06/09/09 22:57	06/10/09 08:52	
BSF0089-07 (AREA2-H4-11)		Soil								Sampled: 06/09/09 14:10
Lead	EPA 6020	2.78	----	1.64	mg/kg dry	1x	9F09032	06/09/09 22:57	06/10/09 08:59	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:25
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSF0089-01 (AREA2-E4-11)		Soil		Sampled: 06/09/09 13:40							P13
Benzene	EPA 8260B	ND	----	0.00146	mg/kg dry	1x	9F11006	06/11/09 09:58	06/11/09 11:36		
Ethylbenzene	"	ND	----	0.00388	"	"	"	"	"	I2	
Methyl tert-butyl ether	"	ND	----	0.000971	"	"	"	"	"		
Naphthalene	"	ND	----	0.00971	"	"	"	"	"	I2	
Toluene	"	ND	----	0.00146	"	"	"	"	"	I2	
o-Xylene	"	ND	----	0.00485	"	"	"	"	"	I2	
m,p-Xylene	"	ND	----	0.00485	"	"	"	"	"	I2	
Total Xylenes	"	ND	----	0.00971	"	"	"	"	"	I2	
<i>Surrogate(s): 1,2-DCA-d4</i>				130%		70 - 140 %	"		"		
<i>Toluene-d8</i>				122%		70 - 130 %	"		"	I2	
<i>4-BFB</i>				128%		70 - 130 %	"		"	I2	

BSF0089-02 (AREA2-F3-11.5)		Soil		Sampled: 06/09/09 13:45							
Benzene	EPA 8260B	ND	----	0.00249	mg/kg dry	1x	9F11006	06/11/09 09:58	06/11/09 12:01	I2	
Ethylbenzene	"	ND	----	0.00664	"	"	"	"	"	I2	
Methyl tert-butyl ether	"	ND	----	0.00166	"	"	"	"	"	I2	
Naphthalene	"	ND	----	0.0166	"	"	"	"	"	I2	
o-Xylene	"	ND	----	0.00830	"	"	"	"	"	I2	
m,p-Xylene	"	ND	----	0.00830	"	"	"	"	"	I2	
Total Xylenes	"	ND	----	0.0166	"	"	"	"	"	I2	
<i>Surrogate(s): 1,2-DCA-d4</i>				117%		70 - 140 %	"		"	I2	
<i>Toluene-d8</i>				127%		70 - 130 %	"		"	I2	
<i>4-BFB</i>				125%		70 - 130 %	"		"	I2	

BSF0089-03 (AREA2-F4-10.5)		Soil		Sampled: 06/09/09 13:50							P13
Benzene	EPA 8260B	ND	----	0.00268	mg/kg dry	1x	9F11006	06/11/09 09:58	06/11/09 12:27	I2	
Ethylbenzene	"	ND	----	0.00716	"	"	"	"	"	I2	
Methyl tert-butyl ether	"	ND	----	0.00179	"	"	"	"	"	I2	
Naphthalene	"	ND	----	0.0179	"	"	"	"	"	I2	
o-Xylene	"	ND	----	0.00895	"	"	"	"	"	I2	
m,p-Xylene	"	ND	----	0.00895	"	"	"	"	"	I2	
Total Xylenes	"	ND	----	0.0179	"	"	"	"	"	I2	
<i>Surrogate(s): 1,2-DCA-d4</i>				142%		70 - 140 %	"		"	I2, ZX	
<i>Toluene-d8</i>				131%		70 - 130 %	"		"	I2, ZX	
<i>4-BFB</i>				130%		70 - 130 %	"		"	I2	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:25

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0089-04 (AREA2-F1-9)		Soil		Sampled: 06/09/09 13:55						P13
Benzene	EPA 8260B	ND	----	0.00104	mg/kg dry	1x	9F11006	06/11/09 09:58	06/11/09 12:53	
Ethylbenzene	"	ND	----	0.00278	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.000694	"	"	"	"	"	
Naphthalene	"	ND	----	0.00694	"	"	"	"	"	I2
Toluene	"	ND	----	0.00104	"	"	"	"	"	I2
o-Xylene	"	ND	----	0.00347	"	"	"	"	"	I2
m,p-Xylene	"	ND	----	0.00347	"	"	"	"	"	I2
Total Xylenes	"	ND	----	0.00694	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				136%		70 - 140 %	"		"	
<i>Toluene-d8</i>				113%		70 - 130 %	"		"	I2
<i>4-BFB</i>				122%		70 - 130 %	"		"	I2
BSF0089-05 (AREA2-G2-11)		Soil		Sampled: 06/09/09 14:00						P13
Benzene	EPA 8260B	ND	----	0.000802	mg/kg dry	1x	9F11006	06/11/09 09:58	06/11/09 13:18	I2
Methyl tert-butyl ether	"	ND	----	0.000535	"	"	"	"	"	I2
Naphthalene	"	ND	----	0.00535	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				137%		70 - 140 %	"		"	I2
<i>Toluene-d8</i>				109%		70 - 130 %	"		"	I2
<i>4-BFB</i>				112%		70 - 130 %	"		"	I2
BSF0089-06 (AREA2-G3-11)		Soil		Sampled: 06/09/09 14:05						P13
Benzene	EPA 8260B	0.0239	----	0.00111	mg/kg dry	1x	9F11006	06/11/09 09:58	06/11/09 13:44	
Ethylbenzene	"	0.0318	----	0.00295	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000737	"	"	"	"	"	
Toluene	"	0.0191	----	0.00111	"	"	"	"	"	
o-Xylene	"	0.0721	----	0.00368	"	"	"	"	"	
m,p-Xylene	"	0.220	----	0.00368	"	"	"	"	"	
Total Xylenes	"	0.292	----	0.00737	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>				122%		70 - 140 %	"		"	
<i>Toluene-d8</i>				112%		70 - 130 %	"		"	
<i>4-BFB</i>				123%		70 - 130 %	"		"	I2

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Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:25

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0089-07 (AREA2-H4-11)		Soil					Sampled: 06/09/09 14:10			
Benzene	EPA 8260B	ND	----	0.00272	mg/kg dry	1x	9F11006	06/11/09 09:58	06/11/09 14:09	I2
Ethylbenzene	"	ND	----	0.00726	"	"	"	"	"	I2
Methyl tert-butyl ether	"	ND	----	0.00181	"	"	"	"	"	
Naphthalene	"	ND	----	0.0181	"	"	"	"	"	I2
<i>Surrogate(s): 1,2-DCA-d4</i>				130%		70 - 140 %	"		"	I2
<i>Toluene-d8</i>				133%		70 - 130 %	"		"	I2
<i>4-BFB</i>				135%		70 - 130 %	"		"	I2

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Volatile Organic Compounds by EPA Method 8260B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSF0089-02 (AREA2-F3-11.5)		Soil		Sampled: 06/09/09 13:45						
Toluene	EPA 8260B	ND	0.0567	0.567	mg/kg dry	1x	9F10005	06/10/09 07:20	06/10/09 10:46	
Surrogate(s): 1,2-DCA-d4			99.2%		75 - 125 %	"				"
Toluene-d8			100%		75 - 125 %	"				"
4-BFB			99.2%		75 - 125 %	"				"

BSF0089-03 (AREA2-F4-10.5)		Soil		Sampled: 06/09/09 13:50						
Toluene	EPA 8260B	ND	0.0672	0.672	mg/kg dry	1x	9F10005	06/10/09 07:20	06/10/09 11:13	
Surrogate(s): 1,2-DCA-d4			104%		75 - 125 %	"				"
Toluene-d8			100%		75 - 125 %	"				"
4-BFB			99.4%		75 - 125 %	"				"

BSF0089-05 (AREA2-G2-11)		Soil		Sampled: 06/09/09 14:00						
Ethylbenzene	EPA 8260B	ND	0.0189	0.158	mg/kg dry	1x	9F10005	06/10/09 07:20	06/10/09 12:06	
Toluene	"	ND	0.0158	0.158	"	"	"	"	"	
o-Xylene	"	ND	0.0268	0.158	"	"	"	"	"	
m,p-Xylene	"	ND	0.0332	0.316	"	"	"	"	"	
Xylenes (total)	"	ND	0.0490	0.474	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			112%		75 - 125 %	"				"
Toluene-d8			101%		75 - 125 %	"				"
4-BFB			97.8%		75 - 125 %	"				"

BSF0089-06 (AREA2-G3-11)		Soil		Sampled: 06/09/09 14:05						
Naphthalene	EPA 8260B	ND	2.63	4.78	mg/kg dry	1x	9F10005	06/10/09 07:20	06/10/09 12:33	
Surrogate(s): 1,2-DCA-d4			115%		75 - 125 %	"				"
Toluene-d8			102%		75 - 125 %	"				"
4-BFB			97.6%		75 - 125 %	"				"

BSF0089-07 (AREA2-H4-11)		Soil		Sampled: 06/09/09 14:10						
Toluene	EPA 8260B	ND	0.0535	0.535	mg/kg dry	1x	9F10005	06/10/09 07:20	06/10/09 12:59	
o-Xylene	"	ND	0.0909	0.535	"	"	"	"	"	
m,p-Xylene	"	ND	0.112	1.07	"	"	"	"	"	
Xylenes (total)	"	ND	0.166	1.60	"	"	"	"	"	
Surrogate(s): 1,2-DCA-d4			118%		75 - 125 %	"				"
Toluene-d8			102%		75 - 125 %	"				"
4-BFB			96.8%		75 - 125 %	"				"

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Kate Haney

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:25

Physical Parameters by APHA/ASTM/EPA Methods

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0089-01 (AREA2-E4-11)		Soil								Sampled: 06/09/09 13:40
Dry Weight	BSOPSP003R0 8	42.9	----	1.00	%	1x	9F09020	06/09/09 15:44	06/10/09 00:00	
BSF0089-02 (AREA2-F3-11.5)		Soil								Sampled: 06/09/09 13:45
Dry Weight	BSOPSP003R0 8	30.7	----	1.00	%	1x	9F09020	06/09/09 15:44	06/10/09 00:00	
BSF0089-03 (AREA2-F4-10.5)		Soil								Sampled: 06/09/09 13:50
Dry Weight	BSOPSP003R0 8	25.5	----	1.00	%	1x	9F09020	06/09/09 15:44	06/10/09 00:00	
BSF0089-04 (AREA2-F1-9)		Soil								Sampled: 06/09/09 13:55
Dry Weight	BSOPSP003R0 8	60.1	----	1.00	%	1x	9F09020	06/09/09 15:44	06/10/09 00:00	
BSF0089-05 (AREA2-G2-11)		Soil								Sampled: 06/09/09 14:00
Dry Weight	BSOPSP003R0 8	65.1	----	1.00	%	1x	9F09020	06/09/09 15:44	06/10/09 00:00	
BSF0089-06 (AREA2-G3-11)		Soil								Sampled: 06/09/09 14:05
Dry Weight	BSOPSP003R0 8	52.3	----	1.00	%	1x	9F09020	06/09/09 15:44	06/10/09 00:00	
BSF0089-07 (AREA2-H4-11)		Soil								Sampled: 06/09/09 14:10
Dry Weight	BSOPSP003R0 8	29.5	----	1.00	%	1x	9F09020	06/09/09 15:44	06/10/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:25
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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F09013 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F09013-BLK1)													Extracted: 06/09/09 09:19			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/09/09 13:53			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 87.2%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/09/09 13:53</i>			
LCS (9F09013-BS1)													Extracted: 06/09/09 09:19			
Gasoline Range Hydrocarbons	NWTPH-Gx	54.1	1.40	5.00	mg/kg wet	1x	--	50.0	108%	(80-120)	--	--	06/09/09 14:26			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.9%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/09/09 14:26</i>			
Duplicate (9F09013-DUP1)													QC Source: BSF0084-01		Extracted: 06/09/09 09:19	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.25	4.48	mg/kg dry	1x	ND	--	--	--	NR (40)		06/09/09 16:05			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/09/09 16:05</i>			
Matrix Spike (9F09013-MS1)													QC Source: BSF0075-03		Extracted: 06/09/09 09:19	
Gasoline Range Hydrocarbons	NWTPH-Gx	42.7	1.09	3.89	mg/kg wet	1x	ND	38.9	110%	(75-130)	--	--	06/09/09 17:12			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 96.6%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/09/09 17:12</i>			
Matrix Spike Dup (9F09013-MSD1)													QC Source: BSF0075-03		Extracted: 06/09/09 09:19	
Gasoline Range Hydrocarbons	NWTPH-Gx	42.3	1.09	3.89	mg/kg wet	1x	ND	38.9	109%	(75-130)	0.903% (25)		06/09/09 17:45			
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 97.1%</i>			<i>Limits: 75-140%</i>	<i>"</i>							<i>06/09/09 17:45</i>			

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:25
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F09019 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F09019-BLK1)

Extracted: 06/09/09 12:42

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/09/09 18:54	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>93.2%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/09/09 18:54</i>	
<i>Octacosane</i>			<i>107%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9F09019-BS1)

Extracted: 06/09/09 12:42

Lube Oil	NWTPH-Dx	61.4	---	25.0	mg/kg wet	1x	--	66.7	92.1%	(63-125)	--	--	06/09/09 19:18	
Diesel Range Hydrocarbons	"	67.5	---	10.0	"	"	--	"	101%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>96.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/09/09 19:18</i>	
<i>Octacosane</i>			<i>104%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9F09019-DUP1)

QC Source: BSF0084-01

Extracted: 06/09/09 12:42

Lube Oil	NWTPH-Dx	44.2	---	26.9	mg/kg dry	1x	58.6	--	--	--	28.0%	(50)	06/09/09 19:42	
Kerosene	"	12.4	---	10.8	"	"	ND	--	--	--	137%	"	"	R3
Diesel Range Hydrocarbons	"	20.0	---	10.8	"	"	ND	--	--	--	103%	"	"	R3
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>89.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/09/09 19:42</i>	
<i>Octacosane</i>			<i>103%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9F09019-MS1)

QC Source: BSF0084-01

Extracted: 06/09/09 12:42

Lube Oil	NWTPH-Dx	137	---	27.4	mg/kg dry	1x	58.6	73.2	107%	(26-150)	--	--	06/09/09 20:06	
Diesel Range Hydrocarbons	"	69.4	---	11.0	"	"	6.41	"	86.1%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>87.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/09/09 20:06</i>	
<i>Octacosane</i>			<i>96.5%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F09032 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F09032-BLK1)								Extracted: 06/09/09 22:57						
Lead	EPA 6020	ND	---	0.515	mg/kg wet	1x	--	--	--	--	--	--	06/10/09 07:24	
LCS (9F09032-BS1)								Extracted: 06/09/09 22:57						
Lead	EPA 6020	39.4	---	0.495	mg/kg wet	1x	--	39.6	99.5%	(80-120)	--	--	06/10/09 07:30	
Duplicate (9F09032-DUP1)				QC Source: BSF0060-02				Extracted: 06/09/09 22:57						
Lead	EPA 6020	5.57	---	0.535	mg/kg dry	1x	8.62	--	--	--	43.0% (20)	--	06/10/09 07:49	R3
Matrix Spike (9F09032-MS1)				QC Source: BSF0060-02				Extracted: 06/09/09 22:57						
Lead	EPA 6020	49.8	---	0.525	mg/kg dry	1x	8.62	42.0	98.0%	(75-125)	--	--	06/10/09 07:43	
Post Spike (9F09032-PS1)				QC Source: BSF0060-02				Extracted: 06/09/09 22:57						
Lead	EPA 6020	0.123	---		ug/ml	1x	0.0163	0.100	107%	(80-120)	--	--	06/10/09 07:37	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F11006 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F11006-BLK1)													Extracted: 06/11/09 09:58	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/11/09 11:10	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/11/09 11:10</i>	
<i>Toluene-d8</i>			<i>99.7%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>105%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9F11006-BS1)													Extracted: 06/11/09 09:58	
Benzene	EPA 8260B	0.0503	---	0.00150	mg/kg wet	1x	--	0.0500	101%	(70-125)	--	--	06/11/09 10:44	
Ethylbenzene	"	0.0592	---	0.00400	"	"	--	"	118%	"	--	--	"	
Methyl tert-butyl ether	"	0.0523	---	0.00100	"	"	--	"	105%	(70-130)	--	--	"	
Naphthalene	"	0.0522	---	0.0100	"	"	--	"	104%	"	--	--	"	
Toluene	"	0.0550	---	0.00150	"	"	--	"	110%	(70-125)	--	--	"	
Total Xylenes	"	0.170	---	0.0100	"	"	--	0.150	114%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/11/09 10:44</i>	
<i>Toluene-d8</i>			<i>99.2%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>98.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9F11006-BSD1)													Extracted: 06/11/09 09:58	
Benzene	EPA 8260B	0.0423	---	0.00150	mg/kg wet	1x	--	0.0500	84.6%	(70-125)	17.2%	(30)	06/11/09 10:15	
Ethylbenzene	"	0.0506	---	0.00400	"	"	--	"	101%	"	15.6%	"	"	
Methyl tert-butyl ether	"	0.0477	---	0.00100	"	"	--	"	95.4%	(70-130)	9.18%	"	"	
Naphthalene	"	0.0463	---	0.0100	"	"	--	"	92.6%	"	12.0%	"	"	
Toluene	"	0.0452	---	0.00150	"	"	--	"	90.5%	(70-125)	19.5%	"	"	
Total Xylenes	"	0.145	---	0.0100	"	"	--	0.150	96.7%	(70-130)	16.2%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/11/09 10:15</i>	
<i>Toluene-d8</i>			<i>95.9%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

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Kate Haney, Project Manager

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Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F10005 Soil Preparation Method: EPA 5030B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F10005-BLK1)													Extracted: 06/10/09 07:20	
Benzene	EPA 8260B	ND	0.0100	0.0200	mg/kg wet	1x	--	--	--	--	--	--	06/10/09 09:52	
Ethylbenzene	"	ND	0.0120	0.100	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	0.0100	0.0500	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	1.10	2.00	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	0.0100	0.100	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	0.0170	0.100	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	0.0210	0.200	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	0.0310	0.300	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 92.4% Limits: 75-125% "</i>														
<i>Toluene-d8 95.0% 75-125% "</i>														
<i>4-BFB 95.0% 75-125% "</i>														

LCS (9F10005-BS1)													Extracted: 06/10/09 07:20	
Benzene	EPA 8260B	3.91	0.0100	0.0200	mg/kg wet	1x	--	4.00	97.8%	(75-125)	--	--	06/10/09 08:25	
Ethylbenzene	"	4.14	0.0120	0.100	"	"	--	"	104%	"	--	--	"	
Methyl tert-butyl ether	"	4.18	0.0100	0.0500	"	"	--	"	105%	"	--	--	"	
Naphthalene	"	4.21	1.10	2.00	"	"	--	"	105%	(60-140)	--	--	"	
Toluene	"	3.85	0.0100	0.100	"	"	--	"	96.2%	(75-125)	--	--	"	
o-Xylene	"	3.98	0.0170	0.100	"	"	--	"	99.5%	"	--	--	"	
m,p-Xylene	"	7.72	0.0210	0.200	"	"	--	8.00	96.4%	"	--	--	"	
Xylenes (total)	"	11.7	0.0310	0.300	"	"	--	12.0	97.5%	"	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 91.1% Limits: 75-125% "</i>														
<i>Toluene-d8 98.0% 75-125% "</i>														
<i>4-BFB 106% 75-125% "</i>														

LCS Dup (9F10005-BSD1)													Extracted: 06/10/09 07:20	
Benzene	EPA 8260B	3.87	0.0100	0.0200	mg/kg wet	1x	--	4.00	96.7%	(75-125)	1.13%	(20)	06/10/09 08:52	
Ethylbenzene	"	3.85	0.0120	0.100	"	"	--	"	96.3%	"	7.23%	"	"	
Methyl tert-butyl ether	"	4.32	0.0100	0.0500	"	"	--	"	108%	"	3.29%	"	"	
Naphthalene	"	4.39	1.10	2.00	"	"	--	"	110%	(60-140)	4.23%	"	"	
Toluene	"	3.70	0.0100	0.100	"	"	--	"	92.4%	(75-125)	4.00%	"	"	
o-Xylene	"	3.83	0.0170	0.100	"	"	--	"	95.6%	"	3.92%	"	"	
m,p-Xylene	"	7.33	0.0210	0.200	"	"	--	8.00	91.6%	"	5.17%	"	"	
Xylenes (total)	"	11.2	0.0310	0.300	"	"	--	12.0	92.9%	"	4.74%	"	"	
<i>Surrogate(s): 1,2-DCA-d4 Recovery: 94.9% Limits: 75-125% "</i>														
<i>Toluene-d8 95.8% 75-125% "</i>														
<i>4-BFB 103% 75-125% "</i>														

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Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:25
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Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F09020 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F09020-BLK1)										Extracted: 06/09/09 15:44				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/10/09 00:00	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:25

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:25

Notes and Definitions

Report Specific Notes:

- I2 - Internal Standard recovery was outside of method limits.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q1 - Does not match typical pattern
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- R3 - The RPD exceeded the acceptance limit due to sample matrix effects.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **BSFO089**

CLIENT: Chad Hebert		INVOICE TO: CP	
REPORT TO: WNCF Shell		P.O. NUMBER:	
PHONE:	FAX:	PRESERVATIVE	
PROJECT NAME: WNCF Phase II		REQUESTED ANALYSES	
PROJECT NUMBER:			
SAMPLED BY: Matthew McKibbin	SAMPLING DATE/TIME		
CLIENT SAMPLE IDENTIFICATION			
1 Area 2-E4-11	6-9-09 / 1340	MPH	X
2 " F3-11.5	" / 1345	MPH	X
3 " F4-10.5	" / 1350	MPH	X
4 " F1-9	" / 1355	MPH	X
5 " G2-11	" / 1400	MPH	X
6 " G3-11	" / 1405	MPH	X
7 " H4-11	" / 1410	MPH	X
8			
9			
10			

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses
 Petroleum Hydrocarbon Analyses

10 STD. 7 5 4 3 2 1 <1
 5 4 3 2 1 <1

OTHER Specify: **24-hr**

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
S	5	Samplest RDE 1.5 ppm	-01
		Samplest 4 ppm	-02
		Samplest 5 ppm	-03
		Samplest 3.5 ppm	-04
		Samplest 4 ppm	-05
		Samplest 4 ppm	-06
		Samplest 4 ppm	-07

RELEASED BY: **Matthew McKibbin** FIRM: **WFS** DATE: **6-9-09** TIME: **1500**

PRINT NAME: **Matthew McKibbin** RECEIVED BY: **Francisco Lung, Jr** FIRM: **TA 5 EA** DATE: **6/9/09** TIME: **1500**

RELEASED BY: FIRM: DATE: TIME:

PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS: **@Labisco w/o** TEMP: **5.7** PAGE OF

TAT: _____

Paperwork to PM – Date: _____ Time: _____

Non-Conformances?

Page Time & Initials: _____

Circle Y or **N**

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____

Logged-in By: _____

Unpacked/

Label Review by: Cooler ID: _____

(applies to temp at receipt)

Labeled by: _____

Date: 6/2/09

Date: 6/2/09

Date: 6/2/09

Date: 6/2

Work Order No. BS F0089

Time: 1600

Time: 1624

Time: 1633

Time: 17:00

Client: _____

Initials: FL

Initials: FL

Initials: FL

Initials: CB

Project: _____

Container Type:

COC Seals:

Packing Material:

Cooler

____ Ship Container

____ Sign By

____ Bubble Bags

____ Styrofoam

____ Box

____ On Bottles

____ Date

____ Foam Packs

____ None/Other _____

None

None Other Bubble wrap, plastic bag

Refrigerant:

Soil Stir Bars/Encores:

Received Via: Bill#:

Gel Ice Pack _____

Placed in freezer #46:

____ Fed Ex _____ Client

____ Loose Ice _____

or N or NA

____ UPS TA Courier

____ None/Other _____

Initial/date/time FL 6/2 1633

____ DHL _____ Mid Valley

____ Senvoy _____ TDP

____ GS _____ Other _____

Cooler Temperature (IR): 5.7 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? _____ °C or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? or N _____

Adequate Volume? or N _____

#Containers match COC? or N _____

(for tests requested) Water VOAs: Headspace? Y or N or NA _____

IDs/time/date match COC? or N _____

Comments: _____

Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Y or N

June 11, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/10/09 14:30.
The following list is a summary of the Work Orders contained in this report, generated on 06/11/09
16:47.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0112	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA2-B2-9	BSF0112-01	Soil	06/10/09 08:00	06/10/09 14:30
AREA2-C3-14	BSF0112-02	Soil	06/10/09 08:10	06/10/09 14:30
AREA2-B3-14	BSF0112-03	Soil	06/10/09 08:20	06/10/09 14:30
AREA2-B4-14	BSF0112-04	Soil	06/10/09 10:00	06/10/09 14:30
AREA2-A4-14	BSF0112-05	Soil	06/10/09 10:10	06/10/09 14:30
AREA2-A5-14	BSF0112-06	Soil	06/10/09 10:20	06/10/09 14:30
AREA2-C4-14	BSF0112-07	Soil	06/10/09 10:30	06/10/09 14:30
AREA2-D3-14	BSF0112-08	Soil	06/10/09 10:40	06/10/09 14:30
AREA2-D4-14	BSF0112-09	Soil	06/10/09 10:50	06/10/09 14:30
DUP-20	BSF0112-10	Soil	06/10/09 12:00	06/10/09 14:30

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:47

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0112-01 (AREA2-B2-9)		Soil		Sampled: 06/10/09 08:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.01	7.18	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 16:46	
Surrogate(s): 4-BFB (FID)			107%		75 - 140 %	"			"	
BSF0112-02 (AREA2-C3-14)		Soil		Sampled: 06/10/09 08:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.91	6.83	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 17:19	
Surrogate(s): 4-BFB (FID)			106%		75 - 140 %	"			"	
BSF0112-03 (AREA2-B3-14)		Soil		Sampled: 06/10/09 08:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	1.84	1.69	6.03	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 17:52	J
Surrogate(s): 4-BFB (FID)			96.8%		75 - 140 %	"			"	
BSF0112-04 (AREA2-B4-14)		Soil		Sampled: 06/10/09 10:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.73	6.19	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 18:24	
Surrogate(s): 4-BFB (FID)			108%		75 - 140 %	"			"	
BSF0112-05 (AREA2-A4-14)		Soil		Sampled: 06/10/09 10:10						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.13	7.62	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 18:57	
Surrogate(s): 4-BFB (FID)			113%		75 - 140 %	"			"	
BSF0112-06 (AREA2-A5-14)		Soil		Sampled: 06/10/09 10:20						
Gasoline Range Hydrocarbons	NWTPH-Gx	3.25	2.44	8.71	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 19:30	J
Surrogate(s): 4-BFB (FID)			122%		75 - 140 %	"			"	
BSF0112-07 (AREA2-C4-14)		Soil		Sampled: 06/10/09 10:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.12	7.56	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 20:02	
Surrogate(s): 4-BFB (FID)			119%		75 - 140 %	"			"	
BSF0112-08 (AREA2-D3-14)		Soil		Sampled: 06/10/09 10:40						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.25	8.05	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 20:35	
Surrogate(s): 4-BFB (FID)			111%		75 - 140 %	"			"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/11/09 16:47
	Project Manager:	Ty Griffith	

Volatile Petroleum Products by NWTPH-Gx
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0112-09 (AREA2-D4-14)		Soil		Sampled: 06/10/09 10:50						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.89	6.76	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 21:07	
<i>Surrogate(s): 4-BFB (FID)</i>			102%		75 - 140 %	"				"
BSF0112-10 (DUP-20)		Soil		Sampled: 06/10/09 12:00						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.52	9.00	mg/kg dry	1x	9F10015	06/10/09 13:57	06/10/09 21:40	
<i>Surrogate(s): 4-BFB (FID)</i>			111%		75 - 140 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:47
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0112-01 (AREA2-B2-9)		Soil			Sampled: 06/10/09 08:00					
Lube Oil	NWTPH-Dx	ND	----	32.4	mg/kg dry	1x	9F10035	06/10/09 15:14	06/10/09 20:18	
Kerosene	"	ND	----	12.9	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.9	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			98.8%		54 - 148 %	"				
<i>Octacosane</i>			111%		62 - 142 %	"				C8
BSF0112-02 (AREA2-C3-14)		Soil			Sampled: 06/10/09 08:10					
Lube Oil	NWTPH-Dx	ND	----	31.2	mg/kg dry	1x	9F10035	06/10/09 15:14	06/10/09 20:42	
Kerosene	"	ND	----	12.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			96.5%		54 - 148 %	"				
<i>Octacosane</i>			108%		62 - 142 %	"				C8
BSF0112-03 (AREA2-B3-14)		Soil			Sampled: 06/10/09 08:20					
Lube Oil	NWTPH-Dx	110	----	28.5	mg/kg dry	1x	9F10035	06/10/09 15:14	06/10/09 21:06	
Kerosene	"	ND	----	11.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	11.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			92.6%		54 - 148 %	"				
<i>Octacosane</i>			103%		62 - 142 %	"				C8
BSF0112-04 (AREA2-B4-14)		Soil			Sampled: 06/10/09 10:00					
Lube Oil	NWTPH-Dx	ND	----	31.1	mg/kg dry	1x	9F10035	06/10/09 15:14	06/10/09 21:30	
Kerosene	"	ND	----	12.4	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.4	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			94.3%		54 - 148 %	"				
<i>Octacosane</i>			110%		62 - 142 %	"				C8
BSF0112-05 (AREA2-A4-14)		Soil			Sampled: 06/10/09 10:10					
Lube Oil	NWTPH-Dx	ND	----	33.8	mg/kg dry	1x	9F10035	06/10/09 15:14	06/10/09 21:54	
Kerosene	"	ND	----	13.5	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.5	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.0%		54 - 148 %	"				
<i>Octacosane</i>			112%		62 - 142 %	"				C8

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:47
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0112-06 (AREA2-A5-14)		Soil		Sampled: 06/10/09 10:20						
Lube Oil	NWTPH-Dx	48.5	----	37.5	mg/kg dry	1x	9F10035	06/10/09 15:14	06/10/09 22:18	Q9
Kerosene	"	ND	----	15.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	26.0	----	15.0	"	"	"	"	"	Q6
<i>Surrogate(s): 2-FBP</i>			94.6%		54 - 148 %	"			"	
<i>Octacosane</i>			104%		62 - 142 %	"			"	C8
BSF0112-07 (AREA2-C4-14)		Soil		Sampled: 06/10/09 10:30						
Lube Oil	NWTPH-Dx	ND	----	35.7	mg/kg dry	1x	9F10035	06/10/09 15:14	06/11/09 00:18	
Kerosene	"	ND	----	14.3	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	14.3	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			103%		54 - 148 %	"			"	
<i>Octacosane</i>			113%		62 - 142 %	"			"	C8
BSF0112-08 (AREA2-D3-14)		Soil		Sampled: 06/10/09 10:40						
Lube Oil	NWTPH-Dx	ND	----	34.2	mg/kg dry	1x	9F10035	06/10/09 15:14	06/11/09 00:42	
Kerosene	"	ND	----	13.7	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	13.7	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			99.8%		54 - 148 %	"			"	
<i>Octacosane</i>			113%		62 - 142 %	"			"	C8
BSF0112-09 (AREA2-D4-14)		Soil		Sampled: 06/10/09 10:50						
Lube Oil	NWTPH-Dx	ND	----	30.4	mg/kg dry	1x	9F10035	06/10/09 15:14	06/11/09 01:06	
Kerosene	"	ND	----	12.2	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	12.2	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			97.6%		54 - 148 %	"			"	
<i>Octacosane</i>			109%		62 - 142 %	"			"	C8
BSF0112-10 (DUP-20)		Soil		Sampled: 06/10/09 12:00						
Lube Oil	NWTPH-Dx	ND	----	35.0	mg/kg dry	1x	9F10035	06/10/09 15:14	06/11/09 01:30	
Kerosene	"	ND	----	14.0	"	"	"	"	"	
Diesel Range Hydrocarbons	"	ND	----	14.0	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			95.7%		54 - 148 %	"			"	
<i>Octacosane</i>			107%		62 - 142 %	"			"	C8

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:47

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0112-01 (AREA2-B2-9)		Soil						Sampled: 06/10/09 08:00		
Lead	EPA 6020	8.04	----	0.639	mg/kg dry	1x	9F10042	06/10/09 21:28	06/11/09 09:35	
BSF0112-02 (AREA2-C3-14)		Soil						Sampled: 06/10/09 08:10		
Lead	EPA 6020	6.36	----	0.610	mg/kg dry	1x	9F10042	06/10/09 21:28	06/11/09 10:07	
BSF0112-03 (AREA2-B3-14)		Soil						Sampled: 06/10/09 08:20		
Lead	EPA 6020	36.4	----	0.570	mg/kg dry	1x	9F10042	06/10/09 21:28	06/11/09 10:13	
BSF0112-04 (AREA2-B4-14)		Soil						Sampled: 06/10/09 10:00		
Lead	EPA 6020	54.0	----	0.626	mg/kg dry	1x	9F10042	06/10/09 21:28	06/11/09 10:19	
BSF0112-05 (AREA2-A4-14)		Soil						Sampled: 06/10/09 10:10		
Lead	EPA 6020	123	----	0.687	mg/kg dry	1x	9F10042	06/10/09 21:28	06/11/09 10:25	
BSF0112-06RE1 (AREA2-A5-14)		Soil						Sampled: 06/10/09 10:20		
Lead	EPA 6020	412	----	3.63	mg/kg dry	5x	9F10042	06/10/09 21:28	06/11/09 13:22	
BSF0112-07 (AREA2-C4-14)		Soil						Sampled: 06/10/09 10:30		
Lead	EPA 6020	17.3	----	0.691	mg/kg dry	1x	9F10042	06/10/09 21:28	06/11/09 10:38	
BSF0112-08 (AREA2-D3-14)		Soil						Sampled: 06/10/09 10:40		
Lead	EPA 6020	41.7	----	0.686	mg/kg dry	1x	9F10042	06/10/09 21:28	06/11/09 10:44	
BSF0112-09 (AREA2-D4-14)		Soil						Sampled: 06/10/09 10:50		
Lead	EPA 6020	15.6	----	0.603	mg/kg dry	1x	9F10042	06/10/09 21:28	06/11/09 10:51	
BSF0112-10 (DUP-20)		Soil						Sampled: 06/10/09 12:00		
Lead	EPA 6020	23.5	----	0.696	mg/kg dry	1x	9F10042	06/10/09 21:28	06/11/09 10:57	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:47
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
BSF0112-01 (AREA2-B2-9)		Soil		Sampled: 06/10/09 08:00							
Benzene	EPA 8260B	0.00182	----	0.00113	mg/kg dry	1x	9F10003	06/10/09 14:00	06/10/09 19:21		
Ethylbenzene	"	ND	----	0.00301	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000753	"	"	"	"	"		
Naphthalene	"	ND	----	0.00753	"	"	"	"	"		
Toluene	"	ND	----	0.00113	"	"	"	"	"		
o-Xylene	"	ND	----	0.00377	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00377	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00753	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			130%		70 - 140 %	"				"	
<i>Toluene-d8</i>			100%		70 - 130 %	"				"	
<i>4-BFB</i>			106%		70 - 130 %	"				"	
BSF0112-02 (AREA2-C3-14)		Soil		Sampled: 06/10/09 08:10							P13
Benzene	EPA 8260B	ND	----	0.000849	mg/kg dry	1x	9F10003	06/10/09 14:00	06/10/09 19:46		
Ethylbenzene	"	ND	----	0.00226	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000566	"	"	"	"	"		
Naphthalene	"	ND	----	0.00566	"	"	"	"	"		
Toluene	"	ND	----	0.000849	"	"	"	"	"		
o-Xylene	"	ND	----	0.00283	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00283	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00566	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			136%		70 - 140 %	"				"	
<i>Toluene-d8</i>			98.9%		70 - 130 %	"				"	
<i>4-BFB</i>			103%		70 - 130 %	"				"	
BSF0112-03RE1 (AREA2-B3-14)		Soil		Sampled: 06/10/09 08:20							
Benzene	EPA 8260B	0.00176	----	0.000941	mg/kg dry	1x	9F11006	06/11/09 09:58	06/11/09 14:35		
Ethylbenzene	"	0.00427	----	0.00251	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000627	"	"	"	"	"		
Naphthalene	"	ND	----	0.00627	"	"	"	"	"		
Toluene	"	0.00233	----	0.000941	"	"	"	"	"		
o-Xylene	"	0.0110	----	0.00314	"	"	"	"	"		
m,p-Xylene	"	0.0184	----	0.00314	"	"	"	"	"		
Total Xylenes	"	0.0294	----	0.00627	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			124%		70 - 140 %	"				"	
<i>Toluene-d8</i>			111%		70 - 130 %	"				"	
<i>4-BFB</i>			126%		70 - 130 %	"				"	

TestAmerica Seattle

Kate Haney

Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:47
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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0112-04 (AREA2-B4-14)		Soil		Sampled: 06/10/09 10:00						
Benzene	EPA 8260B	ND	----	0.000997	mg/kg dry	1x	9F10003	06/10/09 14:00	06/10/09 20:37	
Ethylbenzene	"	ND	----	0.00266	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000665	"	"	"	"	"	
Naphthalene	"	ND	----	0.00665	"	"	"	"	"	
Toluene	"	ND	----	0.000997	"	"	"	"	"	
o-Xylene	"	ND	----	0.00332	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00332	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00665	"	"	"	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>			134%		70 - 140 %	"				"
<i>Toluene-d8</i>			101%		70 - 130 %	"				"
<i>4-BFB</i>			102%		70 - 130 %	"				"

BSF0112-05 (AREA2-A4-14)		Soil		Sampled: 06/10/09 10:10							P13
Benzene	EPA 8260B	ND	----	0.000978	mg/kg dry	1x	9F10003	06/10/09 14:00	06/10/09 21:03		
Ethylbenzene	"	ND	----	0.00261	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000652	"	"	"	"	"		
Naphthalene	"	ND	----	0.00652	"	"	"	"	"		
Toluene	"	ND	----	0.000978	"	"	"	"	"		
o-Xylene	"	ND	----	0.00326	"	"	"	"	"		
m,p-Xylene	"	ND	----	0.00326	"	"	"	"	"		
Total Xylenes	"	ND	----	0.00652	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			132%		70 - 140 %	"				"	
<i>Toluene-d8</i>			104%		70 - 130 %	"				"	
<i>4-BFB</i>			113%		70 - 130 %	"				"	

BSF0112-06 (AREA2-A5-14)		Soil		Sampled: 06/10/09 10:20							P13
Benzene	EPA 8260B	0.000835	----	0.000829	mg/kg dry	1x	9F10003	06/10/09 14:00	06/10/09 21:29		
Ethylbenzene	"	0.0118	----	0.00221	"	"	"	"	"		
Methyl tert-butyl ether	"	ND	----	0.000553	"	"	"	"	"		
Naphthalene	"	ND	----	0.00553	"	"	"	"	"		
Toluene	"	0.00131	----	0.000829	"	"	"	"	"		
o-Xylene	"	0.00288	----	0.00276	"	"	"	"	"		
m,p-Xylene	"	0.0503	----	0.00276	"	"	"	"	"		
Total Xylenes	"	0.0532	----	0.00553	"	"	"	"	"		
<i>Surrogate(s): 1,2-DCA-d4</i>			140%		70 - 140 %	"				"	
<i>Toluene-d8</i>			99.2%		70 - 130 %	"				"	
<i>4-BFB</i>			103%		70 - 130 %	"				"	

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Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSF0112-07 (AREA2-C4-14)

Soil

Sampled: 06/10/09 10:30

Benzene	EPA 8260B	ND	----	0.00114	mg/kg dry	1x	9F10003	06/10/09 14:00	06/10/09 21:54	
Ethylbenzene	"	ND	----	0.00303	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000757	"	"	"	"	"	
Naphthalene	"	ND	----	0.00757	"	"	"	"	"	
Toluene	"	ND	----	0.00114	"	"	"	"	"	
o-Xylene	"	ND	----	0.00378	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00378	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00757	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	135%		70 - 140 %	"					"
	Toluene-d8	97.3%		70 - 130 %	"					"
	4-BFB	96.9%		70 - 130 %	"					"

BSF0112-08 (AREA2-D3-14)

Soil

Sampled: 06/10/09 10:40

P13

Benzene	EPA 8260B	ND	----	0.00102	mg/kg dry	1x	9F10003	06/10/09 14:00	06/10/09 22:20	
Ethylbenzene	"	ND	----	0.00273	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000682	"	"	"	"	"	
Naphthalene	"	ND	----	0.00682	"	"	"	"	"	
Toluene	"	ND	----	0.00102	"	"	"	"	"	
o-Xylene	"	ND	----	0.00341	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00341	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00682	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	127%		70 - 140 %	"					"
	Toluene-d8	98.9%		70 - 130 %	"					"
	4-BFB	107%		70 - 130 %	"					"

BSF0112-09 (AREA2-D4-14)

Soil

Sampled: 06/10/09 10:50

Benzene	EPA 8260B	0.00191	----	0.000948	mg/kg dry	1x	9F10003	06/10/09 14:00	06/10/09 22:46	
Ethylbenzene	"	ND	----	0.00253	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000632	"	"	"	"	"	
Naphthalene	"	ND	----	0.00632	"	"	"	"	"	
Toluene	"	ND	----	0.000948	"	"	"	"	"	
o-Xylene	"	ND	----	0.00316	"	"	"	"	"	
m,p-Xylene	"	ND	----	0.00316	"	"	"	"	"	
Total Xylenes	"	ND	----	0.00632	"	"	"	"	"	

Surrogate(s):	1,2-DCA-d4	138%		70 - 140 %	"					"
	Toluene-d8	99.3%		70 - 130 %	"					"
	4-BFB	102%		70 - 130 %	"					"

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Kate Haney

Kate Haney, Project Manager

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:47

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method)

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Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0112-10 (DUP-20)										
		Soil					Sampled: 06/10/09 12:00			
Benzene	EPA 8260B	0.00244	----	0.00121	mg/kg dry	1x	9F11006	06/11/09 09:58	06/11/09 15:01	
Ethylbenzene	"	ND	----	0.00323	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	0.000808	"	"	"	"	"	
Naphthalene	"	ND	----	0.00808	"	"	"	"	"	
Toluene	"	ND	----	0.00121	"	"	"	"	"	
o-Xylene	"	0.00463	----	0.00404	"	"	"	"	"	
m,p-Xylene	"	0.0126	----	0.00404	"	"	"	"	"	
Total Xylenes	"	0.0172	----	0.00808	"	"	"	"	"	
<i>Surrogate(s):</i>	<i>1,2-DCA-d4</i>			<i>124%</i>		<i>70 - 140 %</i>	"			"
	<i>Toluene-d8</i>			<i>100%</i>		<i>70 - 130 %</i>	"			"
	<i>4-BFB</i>			<i>106%</i>		<i>70 - 130 %</i>	"			"

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Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:47

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0112-01 (AREA2-B2-9)		Soil			Sampled: 06/10/09 08:00					
Dry Weight	BSOPSP003R0 8	76.7	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	
BSF0112-02 (AREA2-C3-14)		Soil			Sampled: 06/10/09 08:10					
Dry Weight	BSOPSP003R0 8	78.8	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	
BSF0112-03 (AREA2-B3-14)		Soil			Sampled: 06/10/09 08:20					
Dry Weight	BSOPSP003R0 8	87.7	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	
BSF0112-04 (AREA2-B4-14)		Soil			Sampled: 06/10/09 10:00					
Dry Weight	BSOPSP003R0 8	79.1	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	
BSF0112-05 (AREA2-A4-14)		Soil			Sampled: 06/10/09 10:10					
Dry Weight	BSOPSP003R0 8	72.7	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	
BSF0112-06 (AREA2-A5-14)		Soil			Sampled: 06/10/09 10:20					
Dry Weight	BSOPSP003R0 8	65.7	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	
BSF0112-07 (AREA2-C4-14)		Soil			Sampled: 06/10/09 10:30					
Dry Weight	BSOPSP003R0 8	69.5	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	
BSF0112-08 (AREA2-D3-14)		Soil			Sampled: 06/10/09 10:40					
Dry Weight	BSOPSP003R0 8	72.2	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	
BSF0112-09 (AREA2-D4-14)		Soil			Sampled: 06/10/09 10:50					
Dry Weight	BSOPSP003R0 8	81.3	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	
BSF0112-10 (DUP-20)		Soil			Sampled: 06/10/09 12:00					
Dry Weight	BSOPSP003R0 8	70.4	----	1.00	%	1x	9F10036	06/10/09 15:15	06/11/09 00:00	

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Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F10015 **Soil Preparation Method: EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (9F10015-BLK1)										Extracted: 06/10/09 09:57					
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	1.40	5.00	mg/kg wet	1x	--	--	--	--	--	--	06/10/09 11:20		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 84.8%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/10/09 11:20</i>	
LCS (9F10015-BS1)										Extracted: 06/10/09 09:57					
Gasoline Range Hydrocarbons	NWTPH-Gx	56.8	1.40	5.00	mg/kg wet	1x	--	50.0	114%	(80-120)	--	--	06/10/09 11:53		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 95.4%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/10/09 11:53</i>	
Duplicate (9F10015-DUP1)										QC Source: BSF0092-02		Extracted: 06/10/09 09:57			
Gasoline Range Hydrocarbons	NWTPH-Gx	352	7.07	25.3	mg/kg dry	5x	362	--	--	--	2.70% (40)		06/10/09 14:36		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 147%</i>			<i>Limits: 75-140%</i>	<i>1x</i>								<i>06/10/09 14:36</i>	ZX
Duplicate (9F10015-DUP2)										QC Source: BSF0112-10		Extracted: 06/10/09 13:57			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	2.52	9.00	mg/kg dry	1x	ND	--	--	--	NR (40)		06/10/09 23:17		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 111%</i>			<i>Limits: 75-140%</i>	<i>"</i>								<i>06/10/09 23:17</i>	
Matrix Spike (9F10015-MS1)										QC Source: BSF0092-02		Extracted: 06/10/09 09:57			
Gasoline Range Hydrocarbons	NWTPH-Gx	619	7.07	25.3	mg/kg dry	5x	362	221	116%	(75-130)	--	--	06/10/09 15:08		
<i>Surrogate(s): 4-BFB (FID)</i>		<i>Recovery: 147%</i>			<i>Limits: 75-140%</i>	<i>1x</i>								<i>06/10/09 15:08</i>	ZX

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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F10035 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (9F10035-BLK1)

Extracted: 06/10/09 15:14

Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/10/09 18:42	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>99.8%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/10/09 18:42</i>	
<i>Octacosane</i>			<i>113%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

LCS (9F10035-BS1)

Extracted: 06/10/09 15:14

Lube Oil	NWTPH-Dx	59.0	---	25.0	mg/kg wet	1x	--	66.7	88.5%	(63-125)	--	--	06/10/09 19:06	
Diesel Range Hydrocarbons	"	67.2	---	10.0	"	"	--	"	101%	(58-140)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>101%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/10/09 19:06</i>	
<i>Octacosane</i>			<i>109%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Duplicate (9F10035-DUP1)

QC Source: BSF0112-01

Extracted: 06/10/09 15:14

Lube Oil	NWTPH-Dx	ND	---	32.5	mg/kg dry	1x	ND	--	--	--	14.6% (50)	--	06/10/09 19:30	
Kerosene	"	ND	---	13.0	"	"	ND	--	--	--	"	--	"	R4
Diesel Range Hydrocarbons	"	ND	---	13.0	"	"	ND	--	--	--	NR	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>90.3%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/10/09 19:30</i>	
<i>Octacosane</i>			<i>108%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

Matrix Spike (9F10035-MS1)

QC Source: BSF0112-01

Extracted: 06/10/09 15:14

Lube Oil	NWTPH-Dx	82.4	---	32.1	mg/kg dry	1x	8.56	85.5	86.4%	(26-150)	--	--	06/10/09 19:54	
Diesel Range Hydrocarbons	"	90.7	---	12.8	"	"	ND	"	106%	(46-155)	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>98.6%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/10/09 19:54</i>	
<i>Octacosane</i>			<i>107%</i>	<i>62-142%</i>		<i>"</i>							<i>"</i>	

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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F10042 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F10042-BLK1)								Extracted: 06/10/09 21:28						
Lead	EPA 6020	ND	---	0.521	mg/kg wet	1x	--	--	--	--	--	--	06/11/09 09:41	
LCS (9F10042-BS1)								Extracted: 06/10/09 21:28						
Lead	EPA 6020	40.8	---	0.500	mg/kg wet	1x	--	40.0	102%	(80-120)	--	--	06/11/09 09:10	
Duplicate (9F10042-DUP1)				QC Source: BSF0112-01				Extracted: 06/10/09 21:28						
Lead	EPA 6020	9.34	---	0.672	mg/kg dry	1x	8.04	--	--	--	14.9% (20)	--	06/11/09 09:29	
Matrix Spike (9F10042-MS1)				QC Source: BSF0112-01				Extracted: 06/10/09 21:28						
Lead	EPA 6020	59.0	---	0.652	mg/kg dry	1x	8.04	52.1	97.7%	(75-125)	--	--	06/11/09 09:23	
Post Spike (9F10042-PS1)				QC Source: BSF0112-01				Extracted: 06/10/09 21:28						
Lead	EPA 6020	0.112	---		ug/ml	1x	0.0126	0.100	99.4%	(80-120)	--	--	06/11/09 09:16	

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Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F10003 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F10003-BLK1)													Extracted: 06/10/09 06:22	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/10/09 18:55	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>131%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/10/09 18:55</i>	
<i>Toluene-d8</i>			<i>97.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>102%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9F10003-BS1)													Extracted: 06/10/09 06:22	
Benzene	EPA 8260B	0.0453	---	0.00150	mg/kg wet	1x	--	0.0500	90.6%	(70-125)	--	--	06/10/09 18:03	
Ethylbenzene	"	0.0504	---	0.00400	"	"	--	"	101%	"	--	--	"	
Methyl tert-butyl ether	"	0.0493	---	0.00100	"	"	--	"	98.7%	(70-130)	--	--	"	
Naphthalene	"	0.0473	---	0.0100	"	"	--	"	94.6%	"	--	--	"	
Toluene	"	0.0482	---	0.00150	"	"	--	"	96.4%	(70-125)	--	--	"	
Total Xylenes	"	0.147	---	0.0100	"	"	--	0.150	98.1%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/10/09 18:03</i>	
<i>Toluene-d8</i>			<i>98.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9F10003-BSD1)													Extracted: 06/10/09 06:22	
Benzene	EPA 8260B	0.0460	---	0.00150	mg/kg wet	1x	--	0.0500	92.1%	(70-125)	1.55%	(30)	06/10/09 18:29	
Ethylbenzene	"	0.0531	---	0.00400	"	"	--	"	106%	"	5.04%	"	"	
Methyl tert-butyl ether	"	0.0521	---	0.00100	"	"	--	"	104%	(70-130)	5.36%	"	"	
Naphthalene	"	0.0496	---	0.0100	"	"	--	"	99.2%	"	4.75%	"	"	
Toluene	"	0.0504	---	0.00150	"	"	--	"	101%	(70-125)	4.56%	"	"	
Total Xylenes	"	0.154	---	0.0100	"	"	--	0.150	102%	(70-130)	4.35%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/10/09 18:29</i>	
<i>Toluene-d8</i>			<i>101%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>			<i>97.1%</i>	<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/11/09 16:47
--	---	-----------------------------------

Volatile Organic Compounds (Special List) per EPA Method 8260B (Low Soil Method) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F11006 Soil Preparation Method: EPA 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F11006-BLK1)													Extracted: 06/11/09 09:58	
Benzene	EPA 8260B	ND	---	0.00150	mg/kg wet	1x	--	--	--	--	--	--	06/11/09 11:10	
Ethylbenzene	"	ND	---	0.00400	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.00100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.00150	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
m,p-Xylene	"	ND	---	0.00500	"	"	--	--	--	--	--	--	"	
Total Xylenes	"	ND	---	0.0100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/11/09 11:10</i>	
<i>Toluene-d8</i>		<i>99.7%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>105%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS (9F11006-BS1)													Extracted: 06/11/09 09:58	
Benzene	EPA 8260B	0.0503	---	0.00150	mg/kg wet	1x	--	0.0500	101%	(70-125)	--	--	06/11/09 10:44	
Ethylbenzene	"	0.0592	---	0.00400	"	"	--	"	118%	"	--	--	"	
Methyl tert-butyl ether	"	0.0523	---	0.00100	"	"	--	"	105%	(70-130)	--	--	"	
Naphthalene	"	0.0522	---	0.0100	"	"	--	"	104%	"	--	--	"	
Toluene	"	0.0550	---	0.00150	"	"	--	"	110%	(70-125)	--	--	"	
Total Xylenes	"	0.170	---	0.0100	"	"	--	0.150	114%	(70-130)	--	--	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>110%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/11/09 10:44</i>	
<i>Toluene-d8</i>		<i>99.2%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>98.1%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

LCS Dup (9F11006-BSD1)													Extracted: 06/11/09 09:58	
Benzene	EPA 8260B	0.0423	---	0.00150	mg/kg wet	1x	--	0.0500	84.6%	(70-125)	17.2%	(30)	06/11/09 10:15	
Ethylbenzene	"	0.0506	---	0.00400	"	"	--	"	101%	"	15.6%	"	"	
Methyl tert-butyl ether	"	0.0477	---	0.00100	"	"	--	"	95.4%	(70-130)	9.18%	"	"	
Naphthalene	"	0.0463	---	0.0100	"	"	--	"	92.6%	"	12.0%	"	"	
Toluene	"	0.0452	---	0.00150	"	"	--	"	90.5%	(70-125)	19.5%	"	"	
Total Xylenes	"	0.145	---	0.0100	"	"	--	0.150	96.7%	(70-130)	16.2%	"	"	
<i>Surrogate(s): 1,2-DCA-d4</i>		<i>Recovery:</i>	<i>111%</i>	<i>Limits: 70-140%</i>		<i>"</i>							<i>06/11/09 10:15</i>	
<i>Toluene-d8</i>		<i>95.9%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	
<i>4-BFB</i>		<i>101%</i>		<i>70-130%</i>		<i>"</i>							<i>"</i>	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/11/09 16:47
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F10036 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F10036-BLK1)										Extracted: 06/10/09 15:15				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/11/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:47

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X
EPA 8260B	Soil	X	X
NWTPH-Dx	Soil		X
NWTPH-Gx	Soil		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/11/09 16:47

Notes and Definitions

Report Specific Notes:

- C8 - Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
- J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- P13 - The sample/solvent ratio was not in accordance with the stated method and may not allow for complete extraction of volatile organics from the soil/solid matrix. Because of this, the reported sample results may be substantially biased low.
- Q6 - Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- Q9 - Hydrocarbon pattern most closely resembles Hydraulic Oil.
- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
- ZX - Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-5302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **B5F0112**

CLIENT: ENVOCO PHILLIPS		INVOICE TO: CP		TURNAROUND REQUEST						
REPORT TO: wmcf staff		P.O. NUMBER:		in Business Days * Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses						
ADDRESS:		PROJECT NAME: wmcf Phase II		STD. <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1						
PHONE:		PROJECT NUMBER:		OTHER <input type="checkbox"/> Specify: 24-hr * Turnaround Request, less than standard may incur Rush Charges.						
SAMPLED BY: Matthew McElbin	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
			REQUESTED ANALYSES	REQUESTED ANALYSES	REQUESTED ANALYSES	REQUESTED ANALYSES				
1	A022-B2-9	6-10-09 / 0800	WMPH	EX	WMPH	S	4	Silty Sand	-01	
2	" - C3-14	" / 0810	82608	DX (C/W/K/S/L/C/S)	WMPH	S	4	Silty Sand	-02	
3	- B3-14	" / 0820				S	4	Silty Sand	-03	
4	- B4-14	" / 1000				S	4	Silty Sand	-04	
5	- A4-14	" / 1010				S	4	Silty Sand	-05	
6	- A5-14	" / 1020				S	4	Silty Sand	-06	
7	- C4-14	" / 1030				S	4	Silty Sand	-07	
8	- D3-14	" / 1040				S	4	Silty Sand	-08	
9	- D4-14	" / 1050				S	4	Silty Sand	-09	
10	DUF-20	" / 1200				S	4	Silty Sand	-10	

RECEIVED BY: **FRANCISCO LARA, JR.**
 PRINT NAME: **FRANCISCO LARA, JR.**
 DATE: **6-10-09**
 TIME: **1300**

RECEIVED BY: **WRS**
 PRINT NAME: **Matthew McElbin**
 DATE: **6-10-09**
 TIME: **1300**

RECEIVED BY: **WRS**
 PRINT NAME: **Matthew McElbin**
 DATE: **6-10-09**
 TIME: **1345**

ADDITIONAL REMARKS: **TEMP: 4.7°C**
1430 v10
 FIRM: **TA-SEA**
 FIRM: **WRS**
 FIRM: **WRS**
 DATE: **6/10/09**
 TIME: **1345**
 DATE: **6/10/09**
 TIME: **1345**
 DATE: **6/10/09**
 TIME: **1345**
 PAGE **4** OF **7**

TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 6/10/09 Date: 6/10/09 Date: 6/10/09 Date: _____ Work Order No. BSF0117
 Time: 1430 Time: 1456 Time: 1516 Time: _____ Client: _____
 Initials: EL Initials: EL Initials: EL Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs
 _____ None/Other _____ None _____ None/Other Plastic Bag

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client
 _____ Loose Ice _____ or N or NA _____ UPS TA Courier
 _____ None/Other _____ Initial/date/time EL 6/10/09 _____ DHL _____ Mid Valley
 _____ Senvoy _____ TDP
 _____ GS _____ Other _____

Cooler Temperature (IR): 4.7 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="checkbox"/> or N _____	Metals Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Provided by TA? <input checked="" type="checkbox"/> or N _____	Client QAPP Preserved? Y or N or <input checked="" type="checkbox"/> NA _____	
Correct Type? <input checked="" type="checkbox"/> or N _____	Adequate Volume? <input checked="" type="checkbox"/> or N _____	
#Containers match COC? <input checked="" type="checkbox"/> or N _____	(for tests requested)	
IDs/time/date match COC? <input checked="" type="checkbox"/> or N _____	Water VOAs: Headspace? Y or N or <input checked="" type="checkbox"/> NA _____	
Hold Times in hold? <input checked="" type="checkbox"/> or N _____	Comments: _____	

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

June 12, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/11/09 16:40.
The following list is a summary of the Work Orders contained in this report, generated on 06/12/09
11:52.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0125	WMCP Phase 2	33759381

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/12/09 11:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Area1-B3-4	BSF0125-01	Soil	06/11/09 14:00	06/11/09 16:40

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/12/09 11:52
	Project Manager:	Ty Griffith	

Total Metals by EPA 6000/7000 Series Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0125-01	(Area1-B3-4)									
		Soil					Sampled: 06/11/09 14:00			
Lead	EPA 6020	12.6	----	0.588	mg/kg dry	1x	9F12007	06/12/09 06:31	06/12/09 09:38	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/12/09 11:52
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0125-01	(Area1-B3-4)	Soil			Sampled: 06/11/09 14:00					
Dry Weight	BSOPSPL003R0 8	76.0	----	1.00	%	1x	9F11020	06/11/09 16:48	06/12/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/12/09 11:52
--	---	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F12007	Soil Preparation Method: EPA 3050B
--------------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F12007-BLK1)								Extracted: 06/12/09 06:31						
Lead	EPA 6020	ND	---	0.463	mg/kg wet	1x	--	--	--	--	--	--	06/12/09 08:47	
LCS (9F12007-BS1)								Extracted: 06/12/09 06:31						
Lead	EPA 6020	37.0	---	0.455	mg/kg wet	1x	--	36.4	102%	(80-120)	--	--	06/12/09 08:54	
Duplicate (9F12007-DUP1)				QC Source: BSF0125-01				Extracted: 06/12/09 06:31						
Lead	EPA 6020	8.82	---	0.563	mg/kg dry	1x	12.6	--	--	--	35.5% (20)	--	06/12/09 09:31	R3
Matrix Spike (9F12007-MS1)				QC Source: BSF0125-01				Extracted: 06/12/09 06:31						
Lead	EPA 6020	56.8	---	0.553	mg/kg dry	1x	12.6	44.3	99.8%	(75-125)	--	--	06/12/09 09:25	
Post Spike (9F12007-PS1)				QC Source: BSF0125-01				Extracted: 06/12/09 06:31						
Lead	EPA 6020	0.120	---		ug/ml	1x	0.0215	0.100	98.1%	(80-120)	--	--	06/12/09 09:19	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/12/09 11:52
--	---	-----------------------------------

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F11020 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F11020-BLK1)										Extracted: 06/11/09 16:48				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/12/09 00:00	

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/12/09 11:52

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/12/09 11:52

Notes and Definitions

Report Specific Notes:

R3 - The RPD exceeded the acceptance limit due to sample matrix effects.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong For Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
 11922 E. First Ave, Spokane, WA 99206-3302
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: *BAF015*

CLIENT: <i>CONOCO FISHERS</i>		INVOICE TO: <i>CP</i>																	
REPORT TO: <i>WMCP S&A</i>		P.O. NUMBER:																	
PHONE:	FAX:	PRESERVATIVE																	
PROJECT NAME: <i>WMCP Phase II</i>		REQUESTED ANALYSES																	
PROJECT NUMBER:		<table border="1"> <tr> <td>10</td><td>7</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td><1</td> </tr> <tr> <td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td><td>STD.</td> </tr> </table>		10	7	5	4	3	2	1	<1	STD.							
10	7	5	4	3	2	1	<1												
STD.	STD.	STD.	STD.	STD.	STD.	STD.	STD.												
SAMPLED BY: <i>Matthew McKibbin</i>		OTHER Specify: <i>24-hr</i>																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	LOCATION/COMMENTS																
<i>Area-63-4</i>	<i>6-11-09/1400</i>	<i>S</i>	<i>Gravelly silt w/ trace wood</i>																
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
RELEASED BY: <i>Matt Miller</i>	DATE: <i>6-11-09</i>	RECEIVED BY: <i>[Signature]</i>	DATE: <i>6/11/09</i>																
PRINT NAME: <i>Matthew McKibbin</i>	TIME: <i>1410</i>	PRINT NAME: <i>Francisco Luby Jr</i>	TIME: <i>1522</i>																
PRINT NAME:	DATE:	PRINT NAME:	DATE:																
FIRM: <i>WFS</i>	TIME:	FIRM: <i>TH-SEA</i>	TIME:																
FIRM:	TIME:	FIRM: <i>@L61640 w/o</i>	TEMP: <i>3.2°C</i>																
ADDITIONAL REMARKS:		PAGE OF																	

TAT: _____

Paperwork to PM – Date: _____ Time: _____

Non-Conformances? N

Page Time & Initials: _____

Circle Y or N

(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 6/11/09 Date: 6/11 Date: 6/11 Date: (1 sample) Work Order No. BAFO125
 Time: 1640 Time: 16:41 Time: 16:15 Time: _____ Client: _____
 Initials: F.L. Initials: CL Initials: CL Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 _____ Box _____ On Bottles _____ Date _____ Foam Packs _____
 _____ None/Other _____ None _____ None/Other _____

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client _____
 _____ Loose Ice _____ Y or N or NA _____ UPS TA Courier _____
 _____ None/Other _____ Initial/date/time _____ DHL _____ Mid Valley _____
 _____ Senvoy _____ TDP _____
 _____ GS _____ Other _____

Cooler Temperature (IR): 3.2 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers:	ID	ID
Intact? <input checked="" type="radio"/> or N _____	Metals Preserved? Y or N or <u>NA</u> _____	
Provided by TA? <input checked="" type="radio"/> or N _____	Client QAPP Preserved? Y or N or <u>NA</u> _____	
Correct Type? <input checked="" type="radio"/> or N _____	Adequate Volume? <input checked="" type="radio"/> or N _____	
#Containers match COC? <input checked="" type="radio"/> or N _____	(for tests requested)	
IDs/time/date match COC? <input checked="" type="radio"/> or N _____	Water VOAs: Headspace? Y or N or <u>NA</u> _____	
Hold Times in hold? <input checked="" type="radio"/> or N _____	Comments: _____	

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

June 15, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/12/09 18:40.
The following list is a summary of the Work Orders contained in this report, generated on 06/15/09
16:58.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0137	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/15/09 16:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA2-A5-11	BSF0137-01	Soil	06/12/09 09:00	06/12/09 18:40
AREA2-A5-9	BSF0137-02	Soil	06/12/09 09:10	06/12/09 18:40

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/15/09 16:58
--	---	-----------------------------------

Total Metals by EPA 6000/7000 Series Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0137-01 (AREA2-A5-11)		Soil			Sampled: 06/12/09 09:00					
Lead	EPA 6020	38.8	----	0.689	mg/kg dry	1x	9F15002	06/15/09 06:33	06/15/09 11:02	R3
BSF0137-02 (AREA2-A5-9)		Soil			Sampled: 06/12/09 09:10					
Lead	EPA 6020	147	----	1.90	mg/kg dry	1x	9F15002	06/15/09 06:33	06/15/09 11:09	

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/15/09 16:58
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0137-01 (AREA2-A5-11)		Soil			Sampled: 06/12/09 09:00					
Dry Weight	BSOPSP003R0 8	68.4	----	1.00	%	1x	9F12037	06/12/09 15:00	06/15/09 00:00	
BSF0137-02 (AREA2-A5-9)		Soil			Sampled: 06/12/09 09:10					
Dry Weight	BSOPSP003R0 8	25.6	----	1.00	%	1x	9F12037	06/12/09 15:00	06/15/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/15/09 16:58
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Total Metals by EPA 6000/7000 Series Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F15002 Soil Preparation Method: EPA 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F15002-BLK1)								Extracted: 06/15/09 06:33						
Lead	EPA 6020	ND	---	0.521	mg/kg wet	1x	--	--	--	--	--	--	06/15/09 10:31	
LCS (9F15002-BS1)								Extracted: 06/15/09 06:33						
Lead	EPA 6020	39.3	---	0.485	mg/kg wet	1x	--	38.8	101%	(80-120)	--	--	06/15/09 10:37	
Duplicate (9F15002-DUP1)				QC Source: BSF0137-01				Extracted: 06/15/09 06:33						
Lead	EPA 6020	21.8	---	0.619	mg/kg dry	1x	38.8	--	--	--	55.8% (20)	--	06/15/09 10:56	R3
Matrix Spike (9F15002-MS1)				QC Source: BSF0137-01				Extracted: 06/15/09 06:33						
Lead	EPA 6020	79.5	---	0.664	mg/kg dry	1x	38.8	53.1	76.7%	(75-125)	--	--	06/15/09 10:50	
Post Spike (9F15002-PS1)				QC Source: BSF0137-01				Extracted: 06/15/09 06:33						
Lead	EPA 6020	0.154	---		ug/ml	1x	0.0562	0.100	97.4%	(80-120)	--	--	06/15/09 10:43	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/15/09 16:58
--	---	-----------------------------------

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F12037 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F12037-BLK1)										Extracted: 06/12/09 15:00				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/15/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/15/09 16:58

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
EPA 6020	Soil	X	X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/15/09 16:58

Notes and Definitions

Report Specific Notes:

R3 - The RPD exceeded the acceptance limit due to sample matrix effects.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Kate Haney, Project Manager

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TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances?
 Page Time & Initials: _____ Circle Y or N
 (If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____ Logged-in By: _____ Unpacked/ Labeled by: _____ Label Review by: _____ Cooler ID: _____
 (applies to temp at receipt)

Date: 6/12/09 Date: 6/12/09 Date: 6/12/09 Date: _____ Work Order No. BS F0137
 Time: 1840 Time: 1908 Time: 1945 Time: _____ Client: _____
 Initials: FL Initials: FL Initials: FL Initials: _____ Project: _____

Container Type: _____ COC Seals: _____ Packing Material: _____
 Cooler _____ Ship Container _____ Sign By _____ Bubble Bags _____ Styrofoam
 Box _____ On Bottles _____ Date _____ Foam Packs _____
 None/Other _____ None _____ None/Other Bubble wrap

Refrigerant: _____ Soil Stir Bars/Encores: _____ Received Via: Bill#: _____
 Gel Ice Pack _____ Placed in freezer #46: _____ Fed Ex _____ Client _____
 Loose Ice _____ Y or N or NA _____ UPS TA Courier _____
 None/Other _____ Initial/date/time _____ DHL _____ Mid Valley _____
 _____ Senvoy _____ TDP _____
 _____ GS _____ Other _____

Cooler Temperature (IR): 6.0 °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
 (circle one)
 Temperature Blank? _____ °C or NA comments _____ Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:
 (initial/date/time): _____
 Comments: _____

Sample Containers: _____ ID _____ ID _____
 Intact? or N _____ Metals Preserved? Y or N or NA _____
 Provided by TA? or N _____ Client QAPP Preserved? Y or N or NA _____
 Correct Type? or N _____ Adequate Volume? or N _____
 (for tests requested)
 #Containers match COC? or N _____ Water VOAs: Headspace? Y or N or NA _____
 IDs/time/date match COC? or N _____ Comments: _____
 Hold Times in hold? or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete? _____ Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up? _____ Y or N

(rev 6, 04/22/09)

June 24, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2

Enclosed are the results of analyses for samples received by the laboratory on 06/19/09 15:05.
The following list is a summary of the Work Orders contained in this report, generated on 06/24/09
09:31.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0180	WMCP Phase 2	33759381

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/24/09 09:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AREA1-B14-2	BSF0180-01	Soil	06/19/09 13:20	06/19/09 15:05

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/24/09 09:31

Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0180-01 (AREA1-B14-2)		Soil			Sampled: 06/19/09 13:20					
Kerosene	NWTPH-Dx	ND	----	12.5	mg/kg dry	1x	9F23010	06/23/09 15:02	06/24/09 01:12	
Surrogate(s): 2-FBP			83.2%		54 - 148 %	"				"
Octacosane			92.4%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/24/09 09:31
--	---	-----------------------------------

Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0180-01 (AREA1-B14-2)		Soil			Sampled: 06/19/09 13:20					
Dry Weight	BSOPSPL003R0 8	79.5	----	1.00	%	1x	9F22023	06/23/09 18:33	06/24/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/24/09 09:31

Metals (ICP/MS)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0180-01 (AREA1-B14-2)										
			Soil				Sampled: 06/19/09 13:20			
Lead	6020 Dry	3.4	----	0.23	mg/Kg dry	10x	45187	06/22/09 10:48	06/22/09 12:36	

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/24/09 09:31
	Project Manager:	Ty Griffith	

Northwest - Semi-Volatile Petroleum Products (GC)
 TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0180-01 (AREA1-B14-2)		Soil			Sampled: 06/19/09 13:20					
#2 Diesel (>C12-C24)	NWTPH-Dx Dry	49	----	31	mg/Kg dry	1x	45180	06/22/09 09:52	06/22/09 20:46	
Lube Oil	"	ND	----	62	"	"	"	"	"	
<i>Surrogate(s): o-Terphenyl</i>			<i>127%</i>		<i>50 - 150 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/24/09 09:31
	Project Manager:	Ty Griffith	

Northwest - Volatile Petroleum Products (GC)
 TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSF0180-01 (AREA1-B14-2) **Soil** **Sampled: 06/19/09 13:20**

Gasoline	NWTPH-Gx Dry	ND	----	6.0	mg/Kg dry	1x	45159	06/21/09 08:47	06/21/09 15:25	
<i>Surrogate(s): 4-Bromofluorobenzene (Surr)</i>			<i>100%</i>		<i>50 - 150 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/24/09 09:31

Volatile Organic Compounds (GC/MS)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0180-01 (AREA1-B14-2)		Soil		Sampled: 06/19/09 13:20						
Methyl tert-butyl ether	8260B Dry	ND	----	60	ug/Kg dry	1x	45159	06/21/09 08:47	06/23/09 03:04	
Benzene	"	ND	----	24	"	"	"	"	"	
Toluene	"	ND	----	60	"	"	"	"	"	
Ethylbenzene	"	ND	----	60	"	"	"	"	"	
m-Xylene & p-Xylene	"	ND	----	60	"	"	"	"	"	
o-Xylene	"	ND	----	60	"	"	"	"	"	
Naphthalene	"	ND	----	60	"	"	"	"	"	
Xylenes, Total	"	ND	----	60	"	"	"	"	"	
<i>Surrogate(s): Fluorobenzene (Surr)</i>			<i>110%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8 (Surr)</i>			<i>106%</i>		<i>85 - 115 %</i>	<i>"</i>				<i>"</i>
<i>Ethylbenzene-d10</i>			<i>86%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>90%</i>		<i>85 - 120 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/24/09 09:31
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F23010 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F23010-BLK1)										Extracted: 06/23/09 15:02				
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/23/09 23:37	
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"	
Surrogate(s): 2-FBP		Recovery:	77.8%	Limits: 54-148%		"							06/23/09 23:37	
Octacosane		Recovery:	90.0%	Limits: 62-142%		"							"	
LCS (9F23010-BS1)										Extracted: 06/23/09 15:02				
Lube Oil	NWTPH-Dx	66.9	---	25.0	mg/kg wet	1x	--	66.7	100%	(63-125)	--	--	06/24/09 00:01	
Diesel Range Hydrocarbons	"	66.1	---	10.0	"	"	--	"	99.1%	(58-140)	--	--	"	
Surrogate(s): 2-FBP		Recovery:	80.3%	Limits: 54-148%		"							06/24/09 00:01	
Octacosane		Recovery:	89.6%	Limits: 62-142%		"							"	
Duplicate (9F23010-DUP1)										QC Source: BSF0180-01 Extracted: 06/23/09 15:02				
Kerosene	NWTPH-Dx	ND	---	12.5	mg/kg dry	1x	ND	--	--	--	(50)		06/24/09 00:24	R4
Surrogate(s): 2-FBP		Recovery:	82.7%	Limits: 54-148%		"							06/24/09 00:24	
Octacosane		Recovery:	90.3%	Limits: 62-142%		"							"	

TestAmerica Seattle



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2	Report Created:
	Project Number:	33759381	06/24/09 09:31
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F22023 **Soil Preparation Method: Dry Weight**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F22023-BLK1)										Extracted: 06/23/09 18:33				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/24/09 00:00	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/24/09 09:31
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Metals (ICP/MS) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45187 Soil Preparation Method: 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Matrix Spike Dup (140841D)			QC Source: BSF0180-01					Extracted: 06/22/09 10:48							
Lead	6020 Dry	72.3	---	1.2	mg/Kg dry	50x	3.4	62.3	111%	(75-125)	4%	(35)	06/22/09 12:51		
Matrix Spike (140841S)			QC Source: BSF0180-01					Extracted: 06/22/09 10:48							
Lead	6020 Dry	69.6	---	1.2	mg/Kg dry	50x	3.4	61.8	107%	(75-125)	--	--	06/22/09 12:47		
Duplicate (140841X)			QC Source: BSF0180-01					Extracted: 06/22/09 10:48							
Lead	6020 Dry	3.73	---	0.25	mg/Kg dry	10x	3.4	--	--	--	10%	(35)	06/22/09 12:40		
Blank (580-45206-16)			QC Source:					Extracted: 06/22/09 10:48							
Lead	6020 Dry	ND	---	0.20	mg/Kg dry	10x	--	--	--	--	--	--	06/22/09 12:28		
LCS (580-45206-21)			QC Source:					Extracted: 06/22/09 10:48							
Lead	6020 Dry	54.1	---	1.0	mg/Kg dry	50x	--	50.0	108%	(80-120)	--	--	06/22/09 12:59		
LCS Dup (580-45206-22)			QC Source:					Extracted: 06/22/09 10:48							
Lead	6020 Dry	53.6	---	1.0	mg/Kg dry	50x	--	50.0	107%	(80-120)	1%	(35)	06/22/09 13:02		

TestAmerica Seattle



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/24/09 09:31
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Northwest - Semi-Volatile Petroleum Products (GC) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45180 **Soil Preparation Method: 3550B**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Duplicate (140841X)			QC Source: BSF0180-01					Extracted: 06/22/09 09:52							
#2 Diesel (>C12-C24)	NWTPH-Dx Dry	45.7	---	31	mg/Kg dry	1x	49	--	--	--	7%	(35)	06/22/09 21:12		
Lube Oil	"	ND	---	61	"	"	ND	--	--	--	NC%	"	"		
<i>Surrogate(s): o-Terphenyl</i>		<i>Recovery: 127%</i>		<i>Limits: 50-150%</i>								<i>06/22/09 21:12</i>			
Blank (580-45259-4)			QC Source:					Extracted: 06/22/09 09:52							
#2 Diesel (>C12-C24)	NWTPH-Dx Dry	ND	---	25	mg/Kg dry	1x	--	--	--	--	--	--	06/23/09 13:23		
Lube Oil	"	ND	---	50	"	"	--	--	--	--	--	--	"		
<i>Surrogate(s): o-Terphenyl</i>		<i>Recovery: 139%</i>		<i>Limits: 50-150%</i>								<i>06/23/09 13:23</i>			
LCS (580-45259-7)			QC Source:					Extracted: 06/22/09 09:52							
#2 Diesel (>C12-C24)	NWTPH-Dx Dry	557	---	25	mg/Kg dry	1x	--	514	108%	(70-125)	--	--	06/23/09 14:33		
Lube Oil	"	559	---	50	"	"	--	528	106%	"	--	--	"		
<i>Surrogate(s): o-Terphenyl</i>		<i>Recovery: 141%</i>		<i>Limits: 50-150%</i>								<i>06/23/09 14:33</i>			

TestAmerica Seattle



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/24/09 09:31
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Northwest - Volatile Petroleum Products (GC) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45159 Soil Preparation Method: 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (580-45177-3)			QC Source:					Extracted: 06/21/09 08:47						
Gasoline	NWTPH-Gx Dry	ND	---	4.0	mg/Kg dry	1x	--	--	--	--	--	--	06/21/09 13:59	
Surrogate(s): 4-Bromofluorobenzene (Surr)		Recovery: 101%	Limits: 50-150%		"		06/21/09 13:59							
LCS (580-45177-4)			QC Source:					Extracted: 06/21/09 08:47						
Gasoline	NWTPH-Gx Dry	36.9	---	4.0	mg/Kg dry	1x	--	44.0	84%	(68-120)	--	--	06/21/09 14:20	
Surrogate(s): 4-Bromofluorobenzene (Surr)		Recovery: 101%	Limits: 50-150%		"		06/21/09 14:20							
LCS Dup (580-45177-5)			QC Source:					Extracted: 06/21/09 08:47						
Gasoline	NWTPH-Gx Dry	37.3	---	4.0	mg/Kg dry	1x	--	44.0	85%	(68-120)	1%	(10)	06/21/09 14:42	
Surrogate(s): 4-Bromofluorobenzene (Surr)		Recovery: 100%	Limits: 50-150%		"		06/21/09 14:42							

TestAmerica Seattle



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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 Project Number: 33759381 Project Manager: Ty Griffith	Report Created: 06/24/09 09:31
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Volatile Organic Compounds (GC/MS) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45159 **Soil Preparation Method: 5035**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (580-45223-3)			QC Source:					Extracted: 06/21/09 08:47							
Methyl tert-butyl ether	8260B Dry	ND	---	40	ug/Kg dry	1x	--	--	--	--	--	--	06/22/09 22:16		
Benzene	"	ND	---	16	"	"	--	--	--	--	--	--	"		
Toluene	"	ND	---	40	"	"	--	--	--	--	--	--	"		
Ethylbenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"		
m-Xylene & p-Xylene	"	ND	---	40	"	"	--	--	--	--	--	--	"		
o-Xylene	"	ND	---	40	"	"	--	--	--	--	--	--	"		
Naphthalene	"	ND	---	40	"	"	--	--	--	--	--	--	"		
Xylenes, Total	"	ND	---	40	"	"	--	--	--	--	--	--	"		
<i>Surrogate(s): Fluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>114%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>06/22/09 22:16</i>		
<i>Trifluorotoluene (Surr)</i>			<i>99%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		
<i>Toluene-d8 (Surr)</i>			<i>100%</i>	<i>85-115%</i>		<i>"</i>							<i>"</i>		
<i>Ethylbenzene-d10</i>			<i>93%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		
<i>4-Bromofluorobenzene (Surr)</i>			<i>93%</i>	<i>85-120%</i>		<i>"</i>							<i>"</i>		

LCS (580-45223-5)			QC Source:					Extracted: 06/21/09 09:02							
Methyl tert-butyl ether	8260B Dry	792	---	40	ug/Kg dry	1x	--	800	99%	(65-125)	--	--	06/22/09 23:04		
Benzene	"	815	---	16	"	"	--	"	102%	(75-125)	--	--	"		
Toluene	"	805	---	40	"	"	--	"	101%	(70-125)	--	--	"		
Ethylbenzene	"	672	---	40	"	"	--	"	84%	(75-125)	--	--	"		
m-Xylene & p-Xylene	"	1350	---	40	"	"	--	1600	84%	(80-125)	--	--	"		
o-Xylene	"	710	---	40	"	"	--	792	90%	(75-125)	--	--	"		
Naphthalene	"	663	---	40	"	"	--	800	83%	(40-125)	--	--	"		
<i>Surrogate(s): Fluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 75-125%</i>		<i>"</i>							<i>06/22/09 23:04</i>		
<i>Trifluorotoluene (Surr)</i>			<i>95%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		
<i>Toluene-d8 (Surr)</i>			<i>106%</i>	<i>85-115%</i>		<i>"</i>							<i>"</i>		
<i>Ethylbenzene-d10</i>			<i>89%</i>	<i>75-125%</i>		<i>"</i>							<i>"</i>		
<i>4-Bromofluorobenzene (Surr)</i>			<i>95%</i>	<i>85-120%</i>		<i>"</i>							<i>"</i>		

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/24/09 09:31

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
NWTPH-Dx	Soil		X

Subcontracted Laboratories

TestAmerica Tacoma NELAC Cert #WA100007, Alaska Cert #UST-022, Washington Cert #C1226

5755 8th St E - Fife, WA/USA 98424

Method Performed: 6020 Dry
Samples: BSF0180-01

Method Performed: 8260B Dry
Samples: BSF0180-01

Method Performed: NWTPH-Dx Dry
Samples: BSF0180-01

Method Performed: NWTPH-Gx Dry
Samples: BSF0180-01

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2**

Project Number: 33759381

Project Manager: Ty Griffith

Report Created:

06/24/09 09:31

Notes and Definitions

Report Specific Notes:

R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



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THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **14084**

CLIENT: CONCO PHILLIPS		INVOICE TO: CP		TURNAROUND REQUEST	
REPORT TO: WMLP Staff		P.O. NUMBER:		in Business Days * Organic & Inorganic Analyses: [7] [5] [4] [3] [2] [1] <1 Petroleum Hydrocarbon Analyses: [5] [4] [3] [2] [1] <1 OTHER: Specify: 24-h	
PHONE:		PRESERVATIVE		* Turnaround Requests less than standard may incur Rush Charges.	
PROJECT NAME: WMLP Phase II		REQUESTED ANALYSES		MATRIX (W, S, O): S # OF CONT.: 4 LOCATION/ COMMENTS: F-Sand + J/H TA WO ID:	
PROJECT NUMBER:		LEAD			
SAMPLED BY: Matthew McKibbin		8260B			
CLIENT SAMPLE IDENTIFICATION		Dx (or Acid-Soluble Cu)			
SAMPLING DATE/TIME		NUTPH			
6-19-09 1320		GX			
1		NUTPH			
2		X			
3					
4					
5					
6					
7					
8					
9					
10					
RELEASED BY: Test Man		DATE: 6-19-09		RECEIVED BY: J. Anderson	
PRINT NAME: MATTHEW MCKIBBIN		TIME: 1400		PRINT NAME: TAC	
FIRM: WMS		DATE:		DATE: 6/19/09	
FIRM:		TIME:		TIME: 15:05	
FIRM:		PRINT NAME:		FIRM: RED/W/NTTE	
FIRM:		PRINT NAME:		DATE: 4.8	
ADDITIONAL REMARKS:				PAGE OF	

Login Sample Receipt Check List

Client: TestAmerica Laboratories, Inc

Job Number: 580-14084-1

Login Number: 14084
Creator: Torres, Terri L
List Number: 1

List Source: TestAmerica Tacoma

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	

Quality Control Results

Client: TestAmerica Laboratories, Inc

Job Number: 580-14084-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 580-45159					
LCS 580-45159/29-A	Lab Control Sample	T	Solid	5035	
MB 580-45159/1-A	Method Blank	T	Solid	5035	
580-14084-1	BSF0180-01	T	Solid	5035	
Prep Batch: 580-45162					
LCS 580-45162/2-A	Lab Control Sample	T	Solid	5035	
MB 580-45162/1-A	Method Blank	T	Solid	5035	
580-14084-1	BSF0180-01	T	Solid	5035	
Analysis Batch:580-45163					
LCS 580-45162/2-A	Lab Control Sample	T	Solid	8260B	580-45162
MB 580-45162/1-A	Method Blank	T	Solid	8260B	580-45162
580-14084-1	BSF0180-01	T	Solid	8260B	580-45162
Analysis Batch:580-45223					
LCS 580-45159/29-A	Lab Control Sample	T	Solid	8260B	580-45159
MB 580-45159/1-A	Method Blank	T	Solid	8260B	580-45159
580-14084-1	BSF0180-01	T	Solid	8260B	580-45159

Report Basis

T = Total

GC VOA

Prep Batch: 580-45159					
LCS 580-45159/2-A	Lab Control Sample	T	Solid	5035	
LCSD 580-45159/3-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 580-45159/1-A	Method Blank	T	Solid	5035	
580-14084-1	BSF0180-01	T	Solid	5035	
Analysis Batch:580-45177					
LCS 580-45159/2-A	Lab Control Sample	T	Solid	NWTPH-Gx	580-45159
LCSD 580-45159/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Gx	580-45159
MB 580-45159/1-A	Method Blank	T	Solid	NWTPH-Gx	580-45159
580-14084-1	BSF0180-01	T	Solid	NWTPH-Gx	580-45159

Report Basis

T = Total

Quality Control Results

Client: TestAmerica Laboratories, Inc

Job Number: 580-14084-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 580-45180					
LCS 580-45180/2-B	Lab Control Sample	T	Solid	3550B	
MB 580-45180/1-B	Method Blank	T	Solid	3550B	
580-14084-1	BSF0180-01	T	Solid	3550B	
580-14084-1DU	Duplicate	T	Solid	3550B	
Analysis Batch:580-45221					
580-14084-1	BSF0180-01	T	Solid	NWTPH-Dx	580-45180
580-14084-1DU	Duplicate	T	Solid	NWTPH-Dx	580-45180
Analysis Batch:580-45259					
LCS 580-45180/2-B	Lab Control Sample	T	Solid	NWTPH-Dx	580-45180
MB 580-45180/1-B	Method Blank	T	Solid	NWTPH-Dx	580-45180

Report Basis

T = Total

Metals

Prep Batch: 580-45187					
LCS 580-45187/16-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-45187/17-A	Lab Control Sample Duplicate	T	Solid	3050B	
MB 580-45187/15-A	Method Blank	T	Solid	3050B	
580-14084-1	BSF0180-01	T	Solid	3050B	
580-14084-1DU	Duplicate	T	Solid	3050B	
580-14084-1MS	Matrix Spike	T	Solid	3050B	
580-14084-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
Analysis Batch:580-45206					
LCS 580-45187/16-A	Lab Control Sample	T	Solid	6020	580-45187
LCSD 580-45187/17-A	Lab Control Sample Duplicate	T	Solid	6020	580-45187
MB 580-45187/15-A	Method Blank	T	Solid	6020	580-45187
580-14084-1	BSF0180-01	T	Solid	6020	580-45187
580-14084-1DU	Duplicate	T	Solid	6020	580-45187
580-14084-1MS	Matrix Spike	T	Solid	6020	580-45187
580-14084-1MSD	Matrix Spike Duplicate	T	Solid	6020	580-45187

Report Basis

T = Total

Quality Control Results

Client: TestAmerica Laboratories, Inc

Job Number: 580-14084-1

QC Association Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Report Basis</u>	<u>Client Matrix</u>	<u>Method</u>	<u>Prep Batch</u>
General Chemistry					
Analysis Batch:580-45190					
580-14084-1	BSF0180-01	T	Solid	Moisture	

Report Basis

T = Total

June 24, 2009

Ty Griffith
URS Corporation
1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

RE: WMCP Phase 2 - Fill

Enclosed are the results of analyses for samples received by the laboratory on 06/19/09 15:05.
The following list is a summary of the Work Orders contained in this report, generated on 06/24/09 09:33.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSF0181	WMCP Phase 2 - Fill	33759383.05000

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/24/09 09:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Amazon Lot 34-21	BSF0181-01	Soil	06/19/09 08:10	06/19/09 15:05

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/24/09 09:33

Analytical Case Narrative

TestAmerica - Seattle, WA

BSF0181

GC/MS VOA

Method(s) 8260B: The 159% recovery of Chloroethane in the laboratory control sample (LCS) for preparation batch 580-45159 (analysis batch 580-45223) exceeded the 155% upper control limit. As this would indicate a potential high bias with no Chloroethane detected in the associated sample, the data have been reported. Chloroethane was flagged "*."

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of the report.

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	06/24/09 09:33
	Project Manager:	Ty Griffith	

Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
 TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0181-01 (Amazon Lot 34-21)		Soil			Sampled: 06/19/09 08:10					
Kerosene	NWTPH-Dx	ND	----	10.3	mg/kg dry	1x	9F23009	06/23/09 14:59	06/23/09 20:01	
Surrogate(s): 2-FBP			79.1%		54 - 148 %	"				"
Octacosane			89.8%		62 - 142 %	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/24/09 09:33
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Physical Parameters by APHA/ASTM/EPA Methods
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0181-01	(Amazon Lot 34-21)	Soil			Sampled: 06/19/09 08:10					
Dry Weight	BSOPSPL003R0 8	96.9	----	1.00	%	1x	9F22023	06/23/09 18:33	06/24/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/24/09 09:33

Mercury (CVAA)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0181-01	(Amazon Lot 34-21)									
		Soil					Sampled: 06/19/09 08:10			
Mercury	7471A Dry	ND	----	0.018	mg/Kg dry	1x	45191	06/22/09 11:38	06/22/09 13:16	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/24/09 09:33
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Metals (ICP/MS)
TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0181-01	(Amazon Lot 34-21)	Soil		Sampled: 06/19/09 08:10						
Arsenic	6020 RCA Dry	1.1	----	0.21	mg/Kg dry	10x	45187	06/22/09 10:48	06/22/09 13:14	
Barium	"	28	----	0.21	"	"	"	"	"	
Cadmium	"	ND	----	0.21	"	"	"	"	"	
Chromium	"	20	----	0.21	"	"	"	"	"	
Lead	"	1.6	----	0.21	"	"	"	"	"	
Selenium	"	ND	----	0.51	"	"	"	"	"	
Silver	"	ND	----	0.21	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	06/24/09 09:33
	Project Manager:	Ty Griffith	

Northwest - Semi-Volatile Petroleum Products (GC)
 TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0181-01 (Amazon Lot 34-21)		Soil			Sampled: 06/19/09 08:10					
#2 Diesel (>C12-C24)	NWTPH-Dx Dry	27	----	24	mg/Kg dry	1x	45180	06/22/09 09:52	06/22/09 19:31	
Lube Oil	"	ND	----	47	"	"	"	"	"	
<i>Surrogate(s): o-Terphenyl</i>			<i>118%</i>		<i>50 - 150 %</i>	"				"

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	06/24/09 09:33
	Project Manager:	Ty Griffith	

Northwest - Volatile Petroleum Products (GC)
 TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	-------	----------	----------	-------

BSF0181-01 (Amazon Lot 34-21) **Soil** **Sampled: 06/19/09 08:10**

Gasoline	NWTPH-Gx Dry	ND	----	4.6	mg/Kg dry	1x	45159	06/21/09 08:47	06/21/09 15:46	
----------	--------------	----	------	-----	-----------	----	-------	----------------	----------------	--

Surrogate(s): 4-Bromofluorobenzene (Surr) 100% 50 - 150 % " "

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/24/09 09:33

Semivolatile Organic Compounds (GC/MS SIM)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0181-01 (Amazon Lot 34-21)		Soil		Sampled: 06/19/09 08:10						
Naphthalene	8270C STD Dry	ND	----	5.2	ug/Kg dry	1x	45174	06/22/09 08:50	06/22/09 13:54	
2-Methylnaphthalene	"	ND	----	5.2	"	"	"	"	"	"
1-Methylnaphthalene	"	ND	----	5.2	"	"	"	"	"	"
Acenaphthylene	"	ND	----	5.2	"	"	"	"	"	"
Acenaphthene	"	ND	----	5.2	"	"	"	"	"	"
Fluorene	"	ND	----	5.2	"	"	"	"	"	"
Phenanthrene	"	ND	----	5.2	"	"	"	"	"	"
Anthracene	"	ND	----	5.2	"	"	"	"	"	"
Fluoranthene	"	ND	----	5.2	"	"	"	"	"	"
Pyrene	"	ND	----	5.2	"	"	"	"	"	"
Benzo[a]anthracene	"	ND	----	5.2	"	"	"	"	"	"
Chrysene	"	ND	----	5.2	"	"	"	"	"	"
Benzo[b]fluoranthene	"	ND	----	5.2	"	"	"	"	"	"
Benzo[k]fluoranthene	"	ND	----	5.2	"	"	"	"	"	"
Benzo[a]pyrene	"	ND	----	5.2	"	"	"	"	"	"
Indeno[1,2,3-cd]pyrene	"	ND	----	5.2	"	"	"	"	"	"
Dibenz(a,h)anthracene	"	ND	----	5.2	"	"	"	"	"	"
Benzo[g,h,i]perylene	"	ND	----	5.2	"	"	"	"	"	"
<i>Surrogate(s): Nitrobenzene-d5</i>			<i>91%</i>	<i>38 - 141 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>2-Fluorobiphenyl</i>			<i>96%</i>	<i>42 - 140 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Terphenyl-d14</i>			<i>100%</i>	<i>42 - 151 %</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 06/24/09 09:33

Volatile Organic Compounds (GC/MS)
 TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0181-01RE1 (Amazon Lot 34-21)		Soil		Sampled: 06/19/09 08:10						
Dichlorodifluoromethane	8260B Dry	ND	----	46	ug/Kg dry	1x	45159	06/21/09 08:47	06/23/09 03:28	
Chloromethane	"	ND	----	460	"	"	"	"	"	
Vinyl chloride	"	ND	----	9.2	"	"	"	"	"	
Bromomethane	"	ND	----	160	"	"	"	"	"	
Chloroethane	"	ND	----	460	"	"	"	"	"	*
Trichlorofluoromethane	"	ND	----	46	"	"	"	"	"	
1,1-Dichloroethene	"	ND	----	23	"	"	"	"	"	
Carbon disulfide	"	ND	----	46	"	"	"	"	"	
Acetone	"	ND	----	460	"	"	"	"	"	
Methylene Chloride	"	ND	----	46	"	"	"	"	"	
Methyl tert-butyl ether	"	ND	----	46	"	"	"	"	"	
trans-1,2-Dichloroethene	"	ND	----	46	"	"	"	"	"	
Hexane	"	ND	----	46	"	"	"	"	"	
1,1-Dichloroethane	"	ND	----	46	"	"	"	"	"	
2,2-Dichloropropane	"	ND	----	46	"	"	"	"	"	
cis-1,2-Dichloroethene	"	ND	----	46	"	"	"	"	"	
2-Butanone	"	ND	----	460	"	"	"	"	"	
Bromochloromethane	"	ND	----	46	"	"	"	"	"	
Chloroform	"	ND	----	46	"	"	"	"	"	
1,1,1-Trichloroethane	"	ND	----	46	"	"	"	"	"	
Carbon tetrachloride	"	ND	----	23	"	"	"	"	"	
1,1-Dichloropropene	"	ND	----	46	"	"	"	"	"	
Benzene	"	ND	----	18	"	"	"	"	"	
1,2-Dichloroethane	"	ND	----	46	"	"	"	"	"	
Trichloroethene	"	ND	----	18	"	"	"	"	"	
1,2-Dichloropropane	"	ND	----	14	"	"	"	"	"	
Dibromomethane	"	ND	----	46	"	"	"	"	"	
Bromodichloromethane	"	ND	----	46	"	"	"	"	"	
cis-1,3-Dichloropropene	"	ND	----	18	"	"	"	"	"	
4-Methyl-2-pentanone	"	ND	----	230	"	"	"	"	"	
Toluene	"	ND	----	46	"	"	"	"	"	
trans-1,3-Dichloropropene	"	ND	----	18	"	"	"	"	"	
1,1,2-Trichloroethane	"	ND	----	14	"	"	"	"	"	
Tetrachloroethene	"	ND	----	23	"	"	"	"	"	
1,3-Dichloropropane	"	ND	----	46	"	"	"	"	"	
2-Hexanone	"	ND	----	230	"	"	"	"	"	
Dibromochloromethane	"	ND	----	46	"	"	"	"	"	
1,2-Dibromoethane	"	ND	----	46	"	"	"	"	"	
Chlorobenzene	"	ND	----	46	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	"	ND	----	46	"	"	"	"	"	
Ethylbenzene	"	ND	----	46	"	"	"	"	"	
m-Xylene & p-Xylene	"	ND	----	46	"	"	"	"	"	
o-Xylene	"	ND	----	46	"	"	"	"	"	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 06/24/09 09:33

Volatile Organic Compounds (GC/MS)
 TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSF0181-01RE1 (Amazon Lot 34-21)		Soil		Sampled: 06/19/09 08:10						
Styrene	8260B Dry	ND	----	46	ug/Kg dry	1x	45159	06/21/09 08:47	06/23/09 03:28	
Bromoform	"	ND	----	46	"	"	"	"	"	
Isopropylbenzene	"	ND	----	46	"	"	"	"	"	
Bromobenzene	"	ND	----	46	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	"	ND	----	12	"	"	"	"	"	
1,2,3-Trichloropropane	"	ND	----	46	"	"	"	"	"	
N-Propylbenzene	"	ND	----	46	"	"	"	"	"	
2-Chlorotoluene	"	ND	----	46	"	"	"	"	"	
4-Chlorotoluene	"	ND	----	46	"	"	"	"	"	
1,3,5-Trimethylbenzene	"	ND	----	46	"	"	"	"	"	
1,2,4-Trimethylbenzene	"	ND	----	46	"	"	"	"	"	
sec-Butylbenzene	"	ND	----	46	"	"	"	"	"	
4-Isopropyltoluene	"	ND	----	46	"	"	"	"	"	
1,3-Dichlorobenzene	"	ND	----	46	"	"	"	"	"	
1,4-Dichlorobenzene	"	ND	----	46	"	"	"	"	"	
n-Butylbenzene	"	ND	----	46	"	"	"	"	"	
1,2-Dichlorobenzene	"	ND	----	46	"	"	"	"	"	
Hexachloroethane	"	ND	----	46	"	"	"	"	"	
1,2-Dibromo-3-Chloropropane	"	ND	----	230	"	"	"	"	"	
1,3,5-Trichlorobenzene	"	ND	----	46	"	"	"	"	"	
1,2,4-Trichlorobenzene	"	ND	----	46	"	"	"	"	"	
Hexachlorobutadiene	"	ND	----	46	"	"	"	"	"	
Naphthalene	"	ND	----	46	"	"	"	"	"	
1,2,3-Trichlorobenzene	"	ND	----	46	"	"	"	"	"	
Xylenes, Total	"	ND	----	46	"	"	"	"	"	
<i>Surrogate(s): Fluorobenzene (Surr)</i>			<i>109%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>Toluene-d8 (Surr)</i>			<i>101%</i>		<i>85 - 115 %</i>	<i>"</i>				<i>"</i>
<i>Ethylbenzene-d10</i>			<i>89%</i>		<i>75 - 125 %</i>	<i>"</i>				<i>"</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>91%</i>		<i>85 - 120 %</i>	<i>"</i>				<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/24/09 09:33
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Identified Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F23009 Soil Preparation Method: EPA 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes		
Blank (9F23009-BLK1)													Extracted: 06/23/09 14:59			
Lube Oil	NWTPH-Dx	ND	---	25.0	mg/kg wet	1x	--	--	--	--	--	--	06/23/09 18:01			
Transformer Oil Range Hydrocarbons	"	ND	---	25.0	"	"	--	--	--	--	--	--	"			
Kerosene	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
Diesel Range Hydrocarbons	"	ND	---	10.0	"	"	--	--	--	--	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>82.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/23/09 18:01</i>			
<i>Octacosane</i>		<i>90.4%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>			
LCS (9F23009-BS1)													Extracted: 06/23/09 14:59			
Lube Oil	NWTPH-Dx	67.7	---	25.0	mg/kg wet	1x	--	66.7	102%	(63-125)	--	--	06/23/09 18:25			
Diesel Range Hydrocarbons	"	68.0	---	10.0	"	"	--	"	102%	(58-140)	--	--	"			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>84.7%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/23/09 18:25</i>			
<i>Octacosane</i>		<i>90.3%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>			
Duplicate (9F23009-DUP1)													QC Source: BSF0181-01		Extracted: 06/23/09 14:59	
Kerosene	NWTPH-Dx	ND	---	10.2	mg/kg dry	1x	ND	--	--	--	40.9% (50)		06/23/09 18:49			
<i>Surrogate(s): 2-FBP</i>		<i>Recovery:</i>	<i>74.0%</i>	<i>Limits: 54-148%</i>		<i>"</i>							<i>06/23/09 18:49</i>			
<i>Octacosane</i>		<i>88.9%</i>		<i>62-142%</i>		<i>"</i>							<i>"</i>			

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name:	WMCP Phase 2 - Fill	Report Created:
	Project Number:	33759383.05000	06/24/09 09:33
	Project Manager:	Ty Griffith	

Physical Parameters by APHA/ASTM/EPA Methods - Laboratory Quality Control Results
 TestAmerica Seattle

QC Batch: 9F22023 Soil Preparation Method: Dry Weight

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9F22023-BLK1)										Extracted: 06/23/09 18:33				
Dry Weight	BSOPSPLO0 3R08	100	---	1.00	%	1x	--	--	--	--	--	--	06/24/09 00:00	

TestAmerica Seattle



Kate Haney, Project Manager

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/24/09 09:33
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Mercury (CVAA) - Laboratory Quality Control Results
TestAmerica Tacoma

QC Batch: 45191 Soil Preparation Method: 7471A

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Matrix Spike Dup (140861D)			QC Source: BSF0181-01					Extracted: 06/22/09 11:38							
Mercury	7471A Dry	0.192	---	0.019	mg/Kg dry	1x	ND	0.194	99%	(75-125)	3%	(35)	06/22/09 13:34		
Matrix Spike (140861S)			QC Source: BSF0181-01					Extracted: 06/22/09 11:38							
Mercury	7471A Dry	0.186	---	0.018	mg/Kg dry	1x	ND	0.184	101%	(75-125)	--	--	06/22/09 13:29		
Duplicate (140861X)			QC Source: BSF0181-01					Extracted: 06/22/09 11:38							
Mercury	7471A Dry	ND	---	0.018	mg/Kg dry	1x	ND	--	--	--	NC%	(35)	06/22/09 13:25		
Blank (580-45210-1)			QC Source:					Extracted: 06/22/09 11:38							
Mercury	7471A Dry	ND	---	0.020	mg/Kg dry	1x	--	--	--	--	--	--	06/22/09 13:02		
LCS (580-45210-2)			QC Source:					Extracted: 06/22/09 11:38							
Mercury	7471A Dry	0.211	---	0.020	mg/Kg dry	1x	--	0.200	106%	(75-125)	--	--	06/22/09 13:07		
LCS Dup (580-45210-3)			QC Source:					Extracted: 06/22/09 11:38							
Mercury	7471A Dry	0.211	---	0.020	mg/Kg dry	1x	--	0.200	106%	(75-125)	0%	(25)	06/22/09 13:12		

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/24/09 09:33
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Metals (ICP/MS) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45187 Soil Preparation Method: 3050B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (580-45206-16)			QC Source:					Extracted: 06/22/09 10:48						
Arsenic	6020 RCA Dry	ND	---	0.20	mg/Kg dry	10x	--	--	--	--	--	--	06/22/09 12:28	
Barium	"	ND	---	0.20	"	"	--	--	--	--	--	--	"	
Cadmium	"	ND	---	0.20	"	"	--	--	--	--	--	--	"	
Chromium	"	ND	---	0.20	"	"	--	--	--	--	--	--	"	
Lead	"	ND	---	0.20	"	"	--	--	--	--	--	--	"	
Selenium	"	ND	---	0.50	"	"	--	--	--	--	--	--	"	
Silver	"	ND	---	0.20	"	"	--	--	--	--	--	--	"	

LCS (580-45206-21)			QC Source:					Extracted: 06/22/09 10:48						
Arsenic	6020 RCA Dry	185	---	1.0	mg/Kg dry	50x	--	200	92%	(80-120)	--	--	06/22/09 12:59	
Barium	"	194	---	1.0	"	"	--	"	97%	"	--	--	"	
Cadmium	"	4.22	---	1.0	"	"	--	5.00	84%	"	--	--	"	
Chromium	"	20.5	---	1.0	"	"	--	20.0	103%	"	--	--	"	
Lead	"	54.1	---	1.0	"	"	--	50.0	108%	"	--	--	"	
Selenium	"	176	---	2.5	"	"	--	200	88%	"	--	--	"	
Silver	"	31.0	---	1.0	"	"	--	30.0	103%	"	--	--	"	

LCS Dup (580-45206-22)			QC Source:					Extracted: 06/22/09 10:48						
Arsenic	6020 RCA Dry	188	---	1.0	mg/Kg dry	50x	--	200	94%	(80-120)	2%	(35)	06/22/09 13:02	
Barium	"	193	---	1.0	"	"	--	"	97%	"	0%	"	"	
Cadmium	"	4.26	---	1.0	"	"	--	5.00	85%	"	1%	"	"	
Chromium	"	21.0	---	1.0	"	"	--	20.0	105%	"	2%	"	"	
Lead	"	53.6	---	1.0	"	"	--	50.0	107%	"	1%	"	"	
Selenium	"	176	---	2.5	"	"	--	200	88%	"	0%	"	"	
Silver	"	30.6	---	1.0	"	"	--	30.0	102%	"	1%	"	"	

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/24/09 09:33
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Northwest - Semi-Volatile Petroleum Products (GC) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45180 Soil Preparation Method: 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (580-45221-4)			QC Source:					Extracted: 06/22/09 09:52							
#2 Diesel (>C12-C24)	NWTPH-Dx Dry	ND	---	25	mg/Kg dry	1x	--	--	--	--	--	--	06/22/09 18:41		
Lube Oil	"	ND	---	50	"	"	--	--	--	--	--	--	"		
<i>Surrogate(s): o-Terphenyl</i>		<i>Recovery: 142%</i>		<i>Limits: 50-150%</i>									<i>06/22/09 18:41</i>		
LCS (580-45259-6)			QC Source:					Extracted: 06/22/09 09:52							
#2 Diesel (>C12-C24)	NWTPH-Dx Dry	500	---	25	mg/Kg dry	1x	--	514	97%	(70-125)	--	--	06/23/09 14:08		
Lube Oil	"	501	---	50	"	"	--	528	95%	(64-127)	--	--	"		
<i>Surrogate(s): o-Terphenyl</i>		<i>Recovery: 127%</i>		<i>Limits: 50-150%</i>									<i>06/23/09 14:08</i>		

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/24/09 09:33
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Northwest - Volatile Petroleum Products (GC) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45159 Soil Preparation Method: 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (580-45177-3)			QC Source:					Extracted: 06/21/09 08:47							
Gasoline	NWTPH-Gx Dry	ND	---	4.0	mg/Kg dry	1x	--	--	--	--	--	--	06/21/09 13:59		
Surrogate(s): 4-Bromofluorobenzene (Surr)		Recovery: 101%	Limits: 50-150%		"									06/21/09 13:59	
LCS (580-45177-4)			QC Source:					Extracted: 06/21/09 08:47							
Gasoline	NWTPH-Gx Dry	36.9	---	4.0	mg/Kg dry	1x	--	44.0	84%	(68-120)	--	--	06/21/09 14:20		
Surrogate(s): 4-Bromofluorobenzene (Surr)		Recovery: 101%	Limits: 50-150%		"									06/21/09 14:20	
LCS Dup (580-45177-5)			QC Source:					Extracted: 06/21/09 08:47							
Gasoline	NWTPH-Gx Dry	37.3	---	4.0	mg/Kg dry	1x	--	44.0	85%	(68-120)	1%	(10)	06/21/09 14:42		
Surrogate(s): 4-Bromofluorobenzene (Surr)		Recovery: 100%	Limits: 50-150%		"									06/21/09 14:42	

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1501 4th Ave, Suite 1400
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Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000
 Project Manager: Ty Griffith

Report Created:
 06/24/09 09:33

Semivolatile Organic Compounds (GC/MS SIM) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45174 Soil Preparation Method: 3550B

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
Blank (580-45169-30)			QC Source:					Extracted: 06/22/09 08:50							
Naphthalene	8270C STD Dry	ND	---	5.0	ug/Kg dry	1x	--	--	--	--	--	--	06/22/09 13:15		
2-Methylnaphthalene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
1-Methylnaphthalene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Acenaphthylene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Acenaphthene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Fluorene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Phenanthrene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Anthracene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Fluoranthene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Pyrene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Benzo[a]anthracene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Chrysene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Benzo[b]fluoranthene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Benzo[k]fluoranthene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Benzo[a]pyrene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Indeno[1,2,3-cd]pyrene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Dibenz[a,h]anthracene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Benzo[g,h,i]perylene	"	ND	---	5.0	"	"	--	--	--	--	--	--	"		
Surrogate(s): Nitrobenzene-d5		Recovery: 95%		Limits: 38-141%		"							06/22/09 13:15		
2-Fluorobiphenyl		98%		42-140%		"							"		
Terphenyl-d14		93%		42-151%		"							"		

LCS (580-45169-33)

LCS (580-45169-33)			QC Source:					Extracted: 06/22/09 08:50							
Naphthalene	8270C STD Dry	1020	---	5.0	ug/Kg dry	1x	--	1000	102%	(64-129)	--	--	06/22/09 15:12		
2-Methylnaphthalene	"	1020	---	5.0	"	"	--	"	102%	(65-125)	--	--	"		
1-Methylnaphthalene	"	965	---	5.0	"	"	--	"	96%	(48-148)	--	--	"		
Acenaphthylene	"	1070	---	5.0	"	"	--	"	107%	(69-129)	--	--	"		
Acenaphthene	"	1050	---	5.0	"	"	--	"	105%	(65-130)	--	--	"		
Fluorene	"	1030	---	5.0	"	"	--	"	103%	(68-128)	--	--	"		
Phenanthrene	"	1020	---	5.0	"	"	--	"	102%	(65-125)	--	--	"		
Anthracene	"	1010	---	5.0	"	"	--	"	101%	(73-123)	--	--	"		
Fluoranthene	"	1040	---	5.0	"	"	--	"	104%	(61-121)	--	--	"		
Pyrene	"	1030	---	5.0	"	"	--	"	103%	(54-134)	--	--	"		
Benzo[a]anthracene	"	995	---	5.0	"	"	--	"	100%	(64-124)	--	--	"		
Chrysene	"	1070	---	5.0	"	"	--	"	107%	(71-126)	--	--	"		
Benzo[b]fluoranthene	"	1040	---	5.0	"	"	--	"	104%	(66-136)	--	--	"		
Benzo[k]fluoranthene	"	1250	---	5.0	"	"	--	"	125%	(63-143)	--	--	"		
Benzo[a]pyrene	"	1100	---	5.0	"	"	--	"	110%	(68-128)	--	--	"		

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URS Corporation 1501 4th Ave, Suite 1400 Seattle, WA/USA 98101-1616	Project Name: WMCP Phase 2 - Fill Project Number: 33759383.05000 Project Manager: Ty Griffith	Report Created: 06/24/09 09:33
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Semivolatile Organic Compounds (GC/MS SIM) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45174	Soil Preparation Method: 3550B
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (580-45169-33)			QC Source:				Extracted: 06/22/09 08:50							
Indeno[1,2,3-cd]pyrene	8270C STD Dry	955	---	5.0	ug/Kg dry	1x	--	1000	96%	(59-139)	--	--	06/22/09 15:12	
Dibenz(a,h)anthracene	"	939	---	5.0	"	"	--	"	94%	(57-142)	--	--	"	
Benzo[g,h,i]perylene	"	940	---	5.0	"	"	--	"	94%	"	--	--	"	
<i>Surrogate(s): Nitrobenzene-d5</i>		<i>Recovery: 101%</i>		<i>Limits: 38-141%</i>		"							<i>06/22/09 15:12</i>	
<i>2-Fluorobiphenyl</i>		<i>99%</i>		<i>42-140%</i>		"							<i>"</i>	
<i>Terphenyl-d14</i>		<i>97%</i>		<i>42-151%</i>		"							<i>"</i>	

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URS Corporation	Project Name: WMCP Phase 2 - Fill	
1501 4th Ave, Suite 1400	Project Number: 33759383.05000	Report Created:
Seattle, WA/USA 98101-1616	Project Manager: Ty Griffith	06/24/09 09:33

Volatile Organic Compounds (GC/MS) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45159	Soil Preparation Method: 5035
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (580-45223-3)			QC Source:				Extracted: 06/21/09 08:47							
Dichlorodifluoromethane	8260B Dry	ND	---	40	ug/Kg dry	1x	--	--	--	--	--	--	06/22/09 22:16	
Chloromethane	"	ND	---	400	"	"	--	--	--	--	--	--		
Vinyl chloride	"	ND	---	8.0	"	"	--	--	--	--	--	--		
Bromomethane	"	ND	---	140	"	"	--	--	--	--	--	--		
Chloroethane	"	ND	---	400	"	"	--	--	--	--	--	--		
Trichlorofluoromethane	"	ND	---	40	"	"	--	--	--	--	--	--		
1,1-Dichloroethene	"	ND	---	20	"	"	--	--	--	--	--	--		
Carbon disulfide	"	ND	---	40	"	"	--	--	--	--	--	--		
Acetone	"	ND	---	400	"	"	--	--	--	--	--	--		
Methylene Chloride	"	ND	---	40	"	"	--	--	--	--	--	--		
Methyl tert-butyl ether	"	ND	---	40	"	"	--	--	--	--	--	--		
trans-1,2-Dichloroethene	"	ND	---	40	"	"	--	--	--	--	--	--		
Hexane	"	ND	---	40	"	"	--	--	--	--	--	--		
1,1-Dichloroethane	"	ND	---	40	"	"	--	--	--	--	--	--		
2,2-Dichloropropane	"	ND	---	40	"	"	--	--	--	--	--	--		
cis-1,2-Dichloroethene	"	ND	---	40	"	"	--	--	--	--	--	--		
2-Butanone	"	ND	---	400	"	"	--	--	--	--	--	--		
Bromochloromethane	"	ND	---	40	"	"	--	--	--	--	--	--		
Chloroform	"	ND	---	40	"	"	--	--	--	--	--	--		
1,1,1-Trichloroethane	"	ND	---	40	"	"	--	--	--	--	--	--		
Carbon tetrachloride	"	ND	---	20	"	"	--	--	--	--	--	--		
1,1-Dichloropropene	"	ND	---	40	"	"	--	--	--	--	--	--		
Benzene	"	ND	---	16	"	"	--	--	--	--	--	--		
1,2-Dichloroethane	"	ND	---	40	"	"	--	--	--	--	--	--		
Trichloroethene	"	ND	---	16	"	"	--	--	--	--	--	--		
1,2-Dichloropropane	"	ND	---	12	"	"	--	--	--	--	--	--		
Dibromomethane	"	ND	---	40	"	"	--	--	--	--	--	--		
Bromodichloromethane	"	ND	---	40	"	"	--	--	--	--	--	--		
cis-1,3-Dichloropropene	"	ND	---	16	"	"	--	--	--	--	--	--		
4-Methyl-2-pentanone	"	ND	---	200	"	"	--	--	--	--	--	--		
Toluene	"	ND	---	40	"	"	--	--	--	--	--	--		
trans-1,3-Dichloropropene	"	ND	---	16	"	"	--	--	--	--	--	--		
1,1,2-Trichloroethane	"	ND	---	12	"	"	--	--	--	--	--	--		
Tetrachloroethene	"	ND	---	20	"	"	--	--	--	--	--	--		
1,3-Dichloropropane	"	ND	---	40	"	"	--	--	--	--	--	--		
2-Hexanone	"	ND	---	200	"	"	--	--	--	--	--	--		
Dibromochloromethane	"	ND	---	40	"	"	--	--	--	--	--	--		
1,2-Dibromoethane	"	ND	---	40	"	"	--	--	--	--	--	--		
Chlorobenzene	"	ND	---	40	"	"	--	--	--	--	--	--		

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Volatile Organic Compounds (GC/MS) - Laboratory Quality Control Results
 TestAmerica Tacoma

QC Batch: 45159 **Soil Preparation Method: 5035**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (580-45223-3)			QC Source:				Extracted: 06/21/09 08:47							
1,1,1,2-Tetrachloroethane	8260B Dry	ND	---	40	ug/Kg dry	1x	--	--	--	--	--	--	06/22/09 22:16	
Ethylbenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
m-Xylene & p-Xylene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	40	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	10	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	40	"	"	--	--	--	--	--	--	"	
N-Propylbenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
4-Isopropyltoluene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
Hexachloroethane	"	ND	---	40	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-Chloropropane	"	ND	---	200	"	"	--	--	--	--	--	--	"	
1,3,5-Trichlorobenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	40	"	"	--	--	--	--	--	--	"	
Xylenes, Total	"	ND	---	40	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): Fluorobenzene (Surr)</i>		<i>Recovery: 114%</i>		<i>Limits: 75-125%</i>		<i>"</i>							<i>06/22/09 22:16</i>	
<i>Toluene-d8 (Surr)</i>		<i>100%</i>		<i>85-115%</i>		<i>"</i>							<i>"</i>	
<i>Ethylbenzene-d10</i>		<i>93%</i>		<i>75-125%</i>		<i>"</i>							<i>"</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>93%</i>		<i>85-120%</i>		<i>"</i>							<i>"</i>	

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URS Corporation

1501 4th Ave, Suite 1400
 Seattle, WA/USA 98101-1616

Project Name: **WMCP Phase 2 - Fill**

Project Number: 33759383.05000

Project Manager: Ty Griffith

Report Created:

06/24/09 09:33

Volatile Organic Compounds (GC/MS) - Laboratory Quality Control Results

TestAmerica Tacoma

QC Batch: 45159

Soil Preparation Method: 5035

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (580-45223-5)			QC Source:				Extracted: 06/21/09 09:02							
1,1-Dichloroethene	8260B Dry	866	---	20	ug/Kg dry	1x	--	792	109%	(65-135)	--	--	06/22/09 23:04	
Acetone	"	1070	---	400	"	"	--	801	134%	(20-160)	--	--	"	
Methyl tert-butyl ether	"	792	---	40	"	"	--	800	99%	(65-125)	--	--	"	
cis-1,2-Dichloroethene	"	849	---	40	"	"	--	"	106%	"	--	--	"	
2-Butanone	"	1040	---	400	"	"	--	"	130%	(30-160)	--	--	"	
1,1,1-Trichloroethane	"	826	---	40	"	"	--	"	103%	(70-135)	--	--	"	
Benzene	"	815	---	16	"	"	--	"	102%	(75-125)	--	--	"	
1,2-Dichloroethane	"	900	---	40	"	"	--	"	112%	(70-135)	--	--	"	
Trichloroethene	"	726	---	16	"	"	--	801	91%	(75-125)	--	--	"	
4-Methyl-2-pentanone	"	803	---	200	"	"	--	796	101%	(45-145)	--	--	"	
Toluene	"	805	---	40	"	"	--	800	101%	(70-125)	--	--	"	
Tetrachloroethene	"	731	---	20	"	"	--	801	91%	(65-140)	--	--	"	
Chlorobenzene	"	642	---	40	"	"	--	800	80%	(75-125)	--	--	"	
Ethylbenzene	"	672	---	40	"	"	--	"	84%	"	--	--	"	
m-Xylene & p-Xylene	"	1350	---	40	"	"	--	1600	84%	(80-125)	--	--	"	
o-Xylene	"	710	---	40	"	"	--	792	90%	(75-125)	--	--	"	
Hexachlorobutadiene	"	679	---	40	"	"	--	785	87%	(55-140)	--	--	"	
Naphthalene	"	663	---	40	"	"	--	800	83%	(40-125)	--	--	"	

<i>Surrogate(s):</i>	<i>Fluorobenzene (Surr)</i>	<i>Recovery:</i>	<i>104%</i>	<i>Limits:</i>	<i>75-125%</i>	<i>"</i>	<i>06/22/09 23:04</i>
	<i>Toluene-d8 (Surr)</i>		<i>106%</i>		<i>85-115%</i>	<i>"</i>	<i>"</i>
	<i>Ethylbenzene-d10</i>		<i>89%</i>		<i>75-125%</i>	<i>"</i>	<i>"</i>
	<i>4-Bromofluorobenzene (Surr)</i>		<i>95%</i>		<i>85-120%</i>	<i>"</i>	<i>"</i>

TestAmerica Seattle



Kate Haney, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



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CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
BSOPSPL003R08	Soil		
NWTPH-Dx	Soil		X

Subcontracted Laboratories

TestAmerica Tacoma NELAC Cert #WA100007, Alaska Cert #UST-022, Washington Cert #C1226

5755 8th St E - Fife, WA/USA 98424

Method Performed: 6020 RCA Dry
Samples: BSF0181-01

Method Performed: 7471A Dry
Samples: BSF0181-01

Method Performed: 8260B Dry
Samples: BSF0181-01RE1

Method Performed: 8270C STD Dry
Samples: BSF0181-01

Method Performed: NWTPH-Dx Dry
Samples: BSF0181-01

Method Performed: NWTPH-Gx Dry
Samples: BSF0181-01

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle



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Notes and Definitions

Report Specific Notes:

- * - LCS or LCSD exceeds the control limits

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

14086

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
 11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: WRS CORP		INVOICE TO: WRS CORP Seattle, WA		TURNAROUND REQUEST in Business Days *	
REPORT TO: Wmcf Staff		P.O. NUMBER:		<input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses	
PHONE:		PRESERVATIVE		<input type="checkbox"/> OTHER Specify: 24-hr	
PROJECT NAME: Wmcf Phase II		REQUESTED ANALYSES		* Turnaround Requests less than standard may incur Rush Charges.	
PROJECT NUMBER:				MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WO ID	
SAMPLED BY: Matthew McKibbin		MULTPA Gx MULTPA Dx RKA-8 PAH's VOC's 82608		S 4 Clean Fill	
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME			
Wmcf 34-21		6-19-09 / 0810			
RELEASED BY: Matt Mca		DATE: 6-19-09		RECEIVED BY: J. Humber	
PRINT NAME: Matthew McKibbin		TIME: 11:00		PRINT NAME: JAL	
FIRM: WRS		DATE:		DATE: 6/19/09	
FIRM:		TIME:		TIME: 15:05	
FIRM:		DATE:		DATE:	
FIRM:		TIME:		TIME:	
PRINT NAME:		PRINT NAME:		PRINT NAME:	
PRINT NAME:		PRINT NAME:		PRINT NAME:	
ADDITIONAL REMARKS:				Red/White 4.8	

Login Sample Receipt Check List

Client: TestAmerica Laboratories, Inc

Job Number: 580-14086-1

Login Number: 14086
Creator: Torres, Terri L
List Number: 1

List Source: TestAmerica Tacoma

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	

Quality Control Results

Client: TestAmerica Laboratories, Inc

Job Number: 580-14086-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:580-45148					
LCS 580-45150/2-A	Lab Control Sample	T	Solid	8260B	580-45150
MB 580-45150/1-A	Method Blank	T	Solid	8260B	580-45150
580-14086-1	BSF0181-01	T	Solid	8260B	580-45150
Prep Batch: 580-45150					
LCS 580-45150/2-A	Lab Control Sample	T	Solid	5035	
MB 580-45150/1-A	Method Blank	T	Solid	5035	
580-14086-1	BSF0181-01	T	Solid	5035	
Prep Batch: 580-45159					
LCS 580-45159/29-A	Lab Control Sample	T	Solid	5035	
MB 580-45159/1-A	Method Blank	T	Solid	5035	
580-14086-1	BSF0181-01	T	Solid	5035	
Analysis Batch:580-45223					
LCS 580-45159/29-A	Lab Control Sample	T	Solid	8260B	580-45159
MB 580-45159/1-A	Method Blank	T	Solid	8260B	580-45159
580-14086-1	BSF0181-01	T	Solid	8260B	580-45159

Report Basis

T = Total

GC/MS Semi VOA

Analysis Batch:580-45169					
LCS 580-45174/2-A	Lab Control Sample	T	Solid	8270C	580-45174
MB 580-45174/1-A	Method Blank	T	Solid	8270C	580-45174
580-14086-1	BSF0181-01	T	Solid	8270C	580-45174
Prep Batch: 580-45174					
LCS 580-45174/2-A	Lab Control Sample	T	Solid	3550B	
MB 580-45174/1-A	Method Blank	T	Solid	3550B	
580-14086-1	BSF0181-01	T	Solid	3550B	

Report Basis

T = Total

Quality Control Results

Client: TestAmerica Laboratories, Inc

Job Number: 580-14086-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 580-45159					
LCS 580-45159/2-A	Lab Control Sample	T	Solid	5035	
LCSD 580-45159/3-A	Lab Control Sample Duplicate	T	Solid	5035	
MB 580-45159/1-A	Method Blank	T	Solid	5035	
580-14086-1	BSF0181-01	T	Solid	5035	
Analysis Batch:580-45177					
LCS 580-45159/2-A	Lab Control Sample	T	Solid	NWTPH-Gx	580-45159
LCSD 580-45159/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Gx	580-45159
MB 580-45159/1-A	Method Blank	T	Solid	NWTPH-Gx	580-45159
580-14086-1	BSF0181-01	T	Solid	NWTPH-Gx	580-45159
Report Basis					
T = Total					
GC Semi VOA					
Prep Batch: 580-45180					
LCS 580-45180/2-A	Lab Control Sample	T	Solid	3550B	
MB 580-45180/1-A	Method Blank	T	Solid	3550B	
580-14086-1	BSF0181-01	T	Solid	3550B	
Analysis Batch:580-45221					
MB 580-45180/1-A	Method Blank	T	Solid	NWTPH-Dx	580-45180
580-14086-1	BSF0181-01	T	Solid	NWTPH-Dx	580-45180
Analysis Batch:580-45259					
LCS 580-45180/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	580-45180

Report Basis

T = Total

Quality Control Results

Client: TestAmerica Laboratories, Inc

Job Number: 580-14086-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-45187					
LCS 580-45187/16-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-45187/17-A	Lab Control Sample Duplicate	T	Solid	3050B	
MB 580-45187/15-A	Method Blank	T	Solid	3050B	
580-14086-1	BSF0181-01	T	Solid	3050B	
Prep Batch: 580-45191					
LCS 580-45191/14-A	Lab Control Sample	T	Solid	7471A	
LCSD 580-45191/15-A	Lab Control Sample Duplicate	T	Solid	7471A	
MB 580-45191/13-A	Method Blank	T	Solid	7471A	
580-14086-1	BSF0181-01	T	Solid	7471A	
580-14086-1DU	Duplicate	T	Solid	7471A	
580-14086-1MS	Matrix Spike	T	Solid	7471A	
580-14086-1MSD	Matrix Spike Duplicate	T	Solid	7471A	
Analysis Batch:580-45206					
LCS 580-45187/16-A	Lab Control Sample	T	Solid	6020	580-45187
LCSD 580-45187/17-A	Lab Control Sample Duplicate	T	Solid	6020	580-45187
MB 580-45187/15-A	Method Blank	T	Solid	6020	580-45187
580-14086-1	BSF0181-01	T	Solid	6020	580-45187
Analysis Batch:580-45210					
LCS 580-45191/14-A	Lab Control Sample	T	Solid	7471A	580-45191
LCSD 580-45191/15-A	Lab Control Sample Duplicate	T	Solid	7471A	580-45191
MB 580-45191/13-A	Method Blank	T	Solid	7471A	580-45191
580-14086-1	BSF0181-01	T	Solid	7471A	580-45191
580-14086-1DU	Duplicate	T	Solid	7471A	580-45191
580-14086-1MS	Matrix Spike	T	Solid	7471A	580-45191
580-14086-1MSD	Matrix Spike Duplicate	T	Solid	7471A	580-45191

Report Basis

T = Total