

# URS

GROUNDWATER MONITORING SERVICES UPTOWN SHOPPING CENTER RICHLAND, WASHINGTON

Prepared For: CITY OF RICHLAND

**URS PROJECT NO. 36298182** 

URS CORPORATION 920 North Argonne Road, Suite 300 Spokane, Washington 99212 509.928.4413

July 12, 2007

TS 1b# 13386651



July 12, 2007

Nancy Aldrich Environmental Affairs Analyst City of Richland P.O. Box 190 MS-26 Richland, WA 99352

Re:

**Final Letter Report** 

**Groundwater Monitoring Services** 

Uptown Shopping Center Richland, Washington URS Job No.: 36298182

Dear Ms. Aldrich:

URS Corporation (URS) is pleased to present this letter report to summarize groundwater monitoring services at the Uptown Shopping Center site located along George Washington Way between Williams Blvd. and Symons Street in Richland, Benton County, Washington. This report is based on our proposal and "Scope of Work for Groundwater Monitoring Services, Uptown Shopping Center, Richland Washington" provided on April 28, 2006. URS Corporation (URS) has prepared this report presenting the activities and results of our sampling effort at the City of Richland Uptown Shopping Center.

#### INTRODUCTION AND BACKGROUND

The Uptown Shopping Center includes approximately 80 retail and commercial businesses. Currently the City of Richland (City) owns the parking lot and service alley. Businesses that have operated in the Uptown Shopping Center historically have been retail, professional and restaurant services. Private ownership began as early as the 1950's and was previously owned by the US Government.

In the early 1990s, fuel oil underground storage tanks (USTs) were closed at the site. Evidence of fuel oil impact to site soils and groundwater were suspected during closure. Four monitoring wells exist at the site; only the locations of three of these wells have been identified by the City. Currently, the City is interested in obtaining "no-further-action" (NFA) status for the site.

#### **Previous Environmental Investigations**

URS reviewed a report dated June 8, 1994 by Huntington Engineering and Environmental documenting an underground storage tank removal project at the Uptown Shopping Center. This report summarizes site activities and assessment results related to removal of 22 heating oil tanks and excavation of seven test pits adjacent to inaccessible tanks located beneath adjoining properties to assess impacts to soils.

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Soil samples from two test pits revealed TPH concentrations above Model Toxics Control Act (MTCA) Method A cleanup levels. The remaining test pits revealed concentrations below cleanup levels or below method reporting limits.

Tetrachloroethene (PCE) was detected in a groundwater sample collected from one test pit near a former existing laundry cleaner facility. Groundwater was found to have been visibly impacted in four areas in the north part of the alley with evidence of floating product in the test pits. Lab results of groundwater samples taken indicated volatile organic compounds (VOC) levels above cleanup levels.

At least three, and possibly four, groundwater monitoring wells were installed at the site prior to 2006. Monitoring wells MW-1, MW-2, and MW-3 were located and sampled as part of URS' services. The location of a fourth reported well, MW-4, could not be identified. URS did not review information pertaining to installation and/or sampling of these monitoring wells.

#### SCOPE OF SERVICES

The purpose of the project was to evaluate groundwater conditions beneath the Uptown Shopping Center site. The approach included installing three additional groundwater monitoring wells in a landscaped strip located along George Washington Way and downgradient from the closed fuel oil USTs; collect quarterly groundwater samples from the three existing on-site wells and the three new wells for four consecutive quarters; and provide results to the City for submission to Ecology at the conclusion of one year.

This work was accomplished in general accordance with the Ecology approved Quality Assurance Project Plan (QAPP), Work Plan (WP), Sampling and Analysis Plan (SAP) and Health and Safety Plan (HASP), dated June 2, 2006. In accordance with the work plan, site investigation and remedial activities included the following tasks:

- Determined the relative groundwater elevations in each of the three existing groundwater monitoring wells by field survey using a construction level. Evaluated groundwater flow direction and selected three groundwater monitoring well locations near the eastern Uptown Shopping Center property and downgradient from potential source areas.
- Prepared a combined WP, SAP, and QAPP for site activities. This document specified well
  design, installation, and monitoring/sampling procedures. The QAPP was prepared in
  accordance with Ecology's "Guidelines and Specifications for Preparing Quality Assurance
  Project Plans for Environmental Studies", Ecology Publication No. 04-03-030.
- Prepared a health and safety plan in accordance with WAC 296-62 and CFR 1910.120.
- Contracted with Environmental West Exploration, to drill three approximately 20-foot-deep hollow-stem auger soil borings. All drilling equipment was decontaminated before drilling each soil boring. Collected soil samples at intervals of approximately 5 feet during drilling using decontaminated split-spoon sampling devices. Soil conditions were described using the



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Unified Soil Classification System (USCS) by a URS geologist. Each soil sample was screened for potential petroleum hydrocarbon contamination using field-screening methods including water sheen testing, headspace vapor analysis, and visual methods.

- Installed 2-inch polyvinyl chloride (PVC) monitoring wells into each soil boring. Wells were constructed as resource protection wells consistent with Washington Administrative Code (WAC) 173-160. Each well was developed by sparging and purging at least five well volumes from each well.
- Soil cuttings from drilling and decontamination liquids were placed into labeled drums and
  moved to a site location approved by the City. Soil samples collected during drilling were
  composited and submitted for laboratory analysis for disposal characterization.
- Surveyed the relative elevation of each new well and the three existing wells using a construction level.
- Submitted one soil sample from each monitoring well location for laboratory analysis. Soil samples were analyzed for diesel- and oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx and volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260B.
- Collected groundwater samples from each of the new wells and the three existing wells immediately following installation of the new wells and every three months for one year.
- Submitted groundwater samples to TestAmerica Laboratories of Spokane, Washington for laboratory analysis of diesel- and oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx and VOCs by EPA Method 8260B under chain-of-custody.
- Measured depth to groundwater in each well before purging, using a decontaminated water level indicator. Depth of free product was measured in MW-2 and bailed down to a minimum layer prior to sampling.
- Placed development and purge water into labeled drums for storage at the site in an area approved by the City.

#### **ENVIRONMENTAL SETTING**

#### **Topography**

The site is located in Richland's central business district along George Washington Way in the SE ¼, SW ¼ of Section 2, Township 9 North, Range 28 East (Figure 1). The United States Geologic Survey (USGS) 7.5 Minute Series Topographic Map of Richland, Washington, provides topographic map coverage of the site. The elevation of the site is approximately 360 feet above mean sea level (msl) and there is a minor decrease in topographic relief across the site towards the east.



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#### **Geologic Setting**

The site is situated in the southern part of the Columbia Plateau that was formed by the Columbia River Basalt Group (CRBG). The region is underlain by Miocene Columbia River Basalt Group rocks and interbedded Neogene terrestrial sediments. To the southeast, the CRBG has been folded into series of anticlines and synclines (Alt and Hyndman, 1995).

The principle rock is the Kennewick Basalts. Pliocene and Pleistocene, gravel, sand, silt and clays flood deposits known as the Ellensburg formation overlie the CRBG. Wind-blown silt called loess, produced from the glacial outwash during the Pleistocene, also covers the area.

#### Soils

In general, the soils at the site were found to be silt-clay to sandy gravel with cobbles of the Ringold Formation. Some fill materials were encountered to approximately 2 feet resulting from the grading and construction of the parking areas. Bedrock was not encountered during drilling operations.

#### **Hydrogeologic Setting**

Regional groundwater flow direction in the shallow water-bearing zone was inferred to be towards the southeast and the Columbia River, located approximately 0.25-miles east of the Uptown Shopping Center site. Water table elevations varied across the site from about 9 feet below ground surface (bgs) in the western portion of the site to about 15 feet bgs in the eastern portion of the site.

#### FIELD ACTIVITIES

URS was contracted to oversee monitoring well installation, collect soil and groundwater samples, arrange for laboratory analyses and report on the site investigation and remedial activities conducted at the City of Richland Uptown Shopping Center.

The work summarized in this document was completed in accordance with procedures and specifications published in the Quality Assurance Project Plan (QAPP) which includes the Work Plan (WP), Sampling Analysis Plan (SAP) and the Health and Safety Plan (HASP).

URS subcontracted Environmental West Exploration of Spokane, Washington to install and develop three groundwater-monitoring wells in accordance with Ecology standards for construction of wells (WAC 173-160). Field sheets, logbooks and photographs were used by URS to document the remedial activities.



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#### **Groundwater Monitoring Well Installation**

URS subcontracted with Environmental West to install three new flush-mounted groundwater-monitoring wells labeled MW-5, MW-6, and MW-7. URS observed Environmental West's fieldwork for compliance with QAPP specifications. Soil samples were taken prior to the installation of each well. Soil cuttings were placed in several 55 gallon drums and the City of Richland moved the drums to another location awaiting analytical results for proper disposal.

Soil samples were collected approximately every 5 feet during drilling using decontaminated split-spoon sampling devices. Soil conditions were described using the Unified Soil Classification System (USCS) by a URS geologist. Each soil sample was screened for potential petroleum hydrocarbon contamination using field-screening methods including water sheen testing, headspace vapor analysis, and visual methods. Boring logs were completed and soils were submitted under chain of custody for laboratory analysis. Boring logs for each well installation are in Appendix A.

Monitoring well MW-5 was installed along the eastern boundary in the southeast portion of the site, monitoring well MW-6 was installed along the eastern boundary in the central portion of the site, and monitoring well MW-7 was installed along the eastern boundary in the northeast portion of the site. The locations of the new monitoring wells are shown in Figure 2.

The wells were installed in accordance with Ecology Standards for construction of wells (WAC 173-160) and the SAP. Each well screen is 10-feet long, 2-inch diameter, Schedule 40 PVC with 0.010-inch screen slots. The water table was encountered at approximately 15.8 feet below ground surface (bgs) in MW-5 and the screen was placed from 11 to 21 feet bgs. In MW-6 the water table was encountered at approximately 13 feet bgs and the screen was placed from 8 to 18 feet bgs. In MW-7 the water table was encountered at approximately 14 feet bgs and the screen was placed from 9 to 19 feet bgs. The wells were developed following the procedures outlined in the SAP. Well construction and development logs are presented in Appendix B. URS surveyed the elevation of each new well and the three existing wells using a construction level. A site-specific datum was used as an elevation bench mark.

#### **Groundwater Sampling**

The existing monitoring wells (MW-1, MW-2, and MW-3) and the new monitoring wells (MW-5, MW-6, and MW-7) were sampled for four consecutive quarters beginning in June 2006 and ending in March 2007. Low-flow, minimal draw down sampling methods were utilized for groundwater sampling. Before purging, depth-to-water measurements were obtained at all wells. Well purging was conducted at a flow rate between 0.1 and 0.5 L/min. During purging specific conductance, temperature, pH, dissolved oxygen, and turbidity measurements were recorded at 5-minute intervals using a Horiba U22 Water Quality Meter. Samples were taken once the water quality parameters stabilized. Stabilization was achieved when successive water quality measurements had a difference of less than 10%. Note: three quarters of sampling was conducted using low flow and parameter stabilization methods and one quarter (the second quarter) was



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conducted using casing volume purge method. Samples were packaged and transported under Chain-of-Custody procedures to the laboratory. Decontamination, record keeping, and purge water disposal was performed in accordance with the QAPP.

Depth to groundwater measurements were collected from the existing on-site monitoring wells at each quarterly groundwater sampling event. These measurements in conjunction with the surveyed the top well-casing elevations were used to calculate the groundwater elevations in each well. The results are presented in Table 1. Groundwater was encountered between 8.75 and 15.45 feet below ground surface and flows to the southeast and southwest. Groundwater gradient maps generated using depth to groundwater measurement data collected during June, September, and December 2006, and March 2007 are presented as Figures 3, 4, 5, and 6 respectively.

Free product was observed in monitoring well MW-2. Before each sampling event, the thickness of product was measured using a clear product bailer, and the product was removed until less than 1/4-inch remained in the well.

#### ANALYTICAL RESULTS

URS subcontracted with TestAmerica of Spokane, Washington to analyze soil and groundwater samples for this project. Analytical methods included EPA Method 8260B for VOCs and Northwest Method NWTPH-Dx for diesel- and oil-range petroleum hydrocarbons.

#### **Soil Analytical Results**

One soil sample was collected from each soil boring based on field screening results. Soil samples were analyzed for analyzed for VOCs by EPA Method 8260 and diesel- and oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx. Concentrations were reported as non-detect in the soil samples submitted for analyses. The results are summarized in Table 2, Uptown Shopping Center Soil Sampling Results.

#### **Groundwater Analytical Results**

The groundwater samples were analyzed for VOCs by EPA Method 8260 and diesel- and oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx. The results are summarized below and presented in Table 3, Uptown Shopping Center, Groundwater Monitoring Results.

Concentrations of diesel- and oil-range petroleum hydrocarbons and VOCs were detected in MW-1 during the first quarter of sampling. Diesel-range petroleum hydrocarbons were detected at 649  $\mu$ g/l and oil-range petroleum hydrocarbons were detected at 775  $\mu$ g/l. These concentrations exceed the MTCA cleanup levels of 500  $\mu$ g/l for diesel- and oil-range petroleum hydrocarbons. Chloroethane was detected below its MTCA cleanup level of 15  $\mu$ g/l. No analytes were detected in MW-1 in the last three sampling quarters.



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Concentrations of diesel-range petroleum hydrocarbons and VOCs were detected in MW-2 during four quarters of sampling. Diesel-range petroleum hydrocarbons were above cleanup level for all four sampling events. Chloroethane was detected above the cleanup level at  $21.9~\mu g/l$ , for the first quarter and non-detect for the remaining three quarters. Tetrachloroethene was detected above its cleanup level for four quarters of sampling. Vinyl chloride was detected above its cleanup level in the third sampling quarter and was non-detect for the first, second, and fourth quarters. Chloroform was detected below its cleanup level during the last two quarters and non-detect on the first two quarters. 1,2,4-Trimethlybenzene was detected below its cleanup level during the first, second and fourth quarters and non-detect on the third quarter. Oil-range petroleum hydrocarbons were non-detect for four sampling quarters.

Concentrations of diesel- and oil-range petroleum hydrocarbons were non-detect in MW-3 during the four quarters of sampling. Chloroform was detected at concentrations below its cleanup level for all four sampling quarters. No additional VOCs were detected in any of the four samples collected from this well.

Concentrations of diesel- and oil-range petroleum hydrocarbons were non-detect in MW-5 during the four quarters of sampling. Tetrachloroethene was detected at a concentration above its cleanup level during the third sampling quarter and at concentrations below its cleanup level for the first, second and fourth sampling quarters. Chloroform was detected at concentrations below its cleanup level for all four sampling quarters. No additional VOCs were detected in any of the four samples collected from this well.

Concentrations of diesel- and oil-range petroleum hydrocarbons were non-detect in MW-6 during the four quarters of sampling. Tetrachloroethene and chloroform were detected at concentrations below their cleanup levels in the first, third, and fourth quarters and non-detect during the second sampling quarter. Chloroethane was detected at a concentration below its cleanup level for the first sampling quarter and was non-detect for the second, third and fourth quarters. No additional VOCs were detected in any of the four samples collected from this well.

Concentrations of diesel- and oil-range petroleum hydrocarbons were non-detect in MW-7 during the four quarters of sampling. Tetrachloroethene was detected at a concentration below its cleanup level during the first quarter, and at concentrations above its cleanup level for the remaining three quarters. Trichloroethene concentrations were non-detect in the first quarter, detected at a concentrations below its cleanup level during the second and third quarters, and at concentrations above its cleanup level for the fourth quarters. Concentrations of tetrachloroethene and trichloroethene in this well increased with every quarter that samples were collected. Chloroform was detected at concentrations below its cleanup level for each of the four sampling quarters. Cis-1,2-dichloroethene concentrations were non-detect in the first quarter, and detected below its cleanup level for the next three sampling quarters. No additional VOCs were detected in any of the four samples collected from this well.



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#### SUMMARY AND CONCLUSIONS

In June 2006, URS observed the drilling and installation of three groundwater monitoring wells at the Uptown Shopping Center site in Richland, Washington. Soil samples were collected from three soil borings and groundwater samples were collected from six monitoring wells for four quarters. Select soil and groundwater samples were analyzed for diesel- and oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx and VOCs by EPA Method 8260B.

Soil samples from borings completed in June of 2006, did not contain detectable levels of dieseland oil-range petroleum hydrocarbons and VOCs.

Groundwater samples collected from the four of the six monitoring wells contained one or more contaminants at concentrations exceeding the MTCA cleanup levels. Generally, diesel-range petroleum hydrocarbon groundwater impacts were present in the central portion of the site near monitoring well MW-2. Tetrachloroethene and related compounds were present in groundwater in the central portion of the site extending to the northern and southern eastern site boundary. The groundwater flow direction, based on depth to water measurements, was generally to the east-southeast. Depth to groundwater in monitoring wells varied from 8.75 to 15.45 feet bgs between June 2006 and March 2007. Groundwater flow direction varied from east to southeast during this period.

#### **LIMITATIONS**

The findings and conclusions documented in this report have been prepared for specific application to this project and have been developed in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area and in general accordance with the terms and conditions set forth in our Agreement, and with the URS proposal dated April 28, 2006. No other warranty, expressed or implied, is made.

The findings presented in this report are based on conditions observed at specific site locations and sampling intervals at the time of the assessment. Because conditions between the boreholes and sampling intervals may vary over distance and time, the potential always remains for the presence of unknown, unidentified, unforeseen or changed surface and subsurface contamination. Conclusions in this report are based on comparison of chemical analytical results to current regulatory standards.

This report is for the exclusive use of the City of Richland and their representatives. No third party shall have the right to rely on our opinions rendered in connection with the services or in this document without our written consent and the third party's agreement to be bound to the same conditions and limitations as the City of Richland.



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URS appreciates the opportunity to provide these services. Please contact the undersigned regarding any questions related to the information provided in this letter report.

Sincerely,

URS CORPORATION

Ř. David Enos

Branch Office Manager

#### **FIGURES**

Figure 1 – Vicinity Map

Figure 2 – Site Plan and Monitoring Well Locations

Figure 3 – Groundwater Gradient, June 13, 2006

Figure 4 – Groundwater Gradient, September 27, 2006

Figure 5 – Groundwater Gradient, December 19, 2006

Figure 6 – Groundwater Gradient, March 7, 2007

#### **TABLES**

Table 1 – Relative Groundwater Elevations

Table 2 – Soil Sampling Results

Table 3 – Groundwater Monitoring Results

#### **APPENDICES**

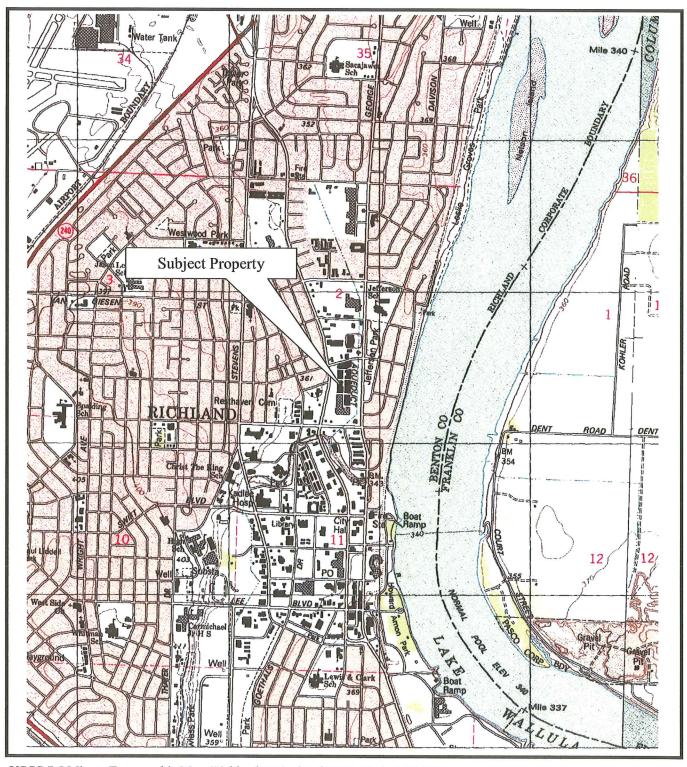
Appendix A – Boring Logs

Appendix B – Well Construction Details

Appendix C – Well Development Record

Appendix D – Laboratory Data

**FIGURES** 



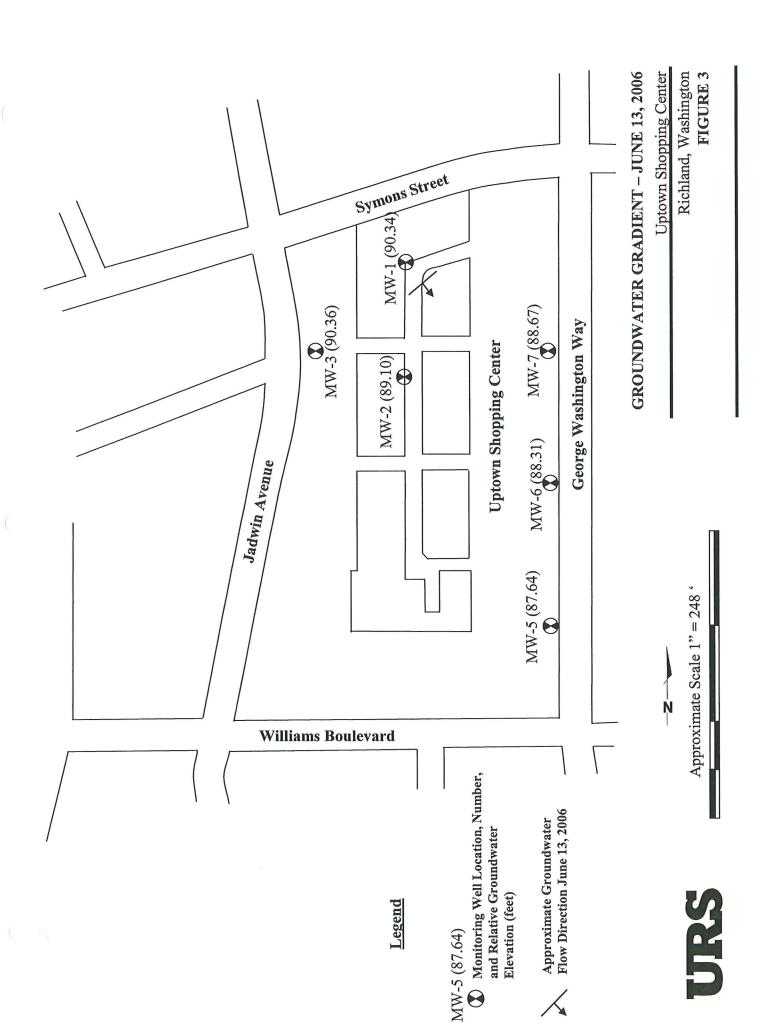
USGS 7.5 Minute Topographic Map, Richland, WA, dated 1990, Scale 1:24,000.





## SITE VICINITY MAP

Uptown Shopping Center
Groundwater Monitoring
September 2006 Symons Street and George Washington Way
36298182.00001 Richland, Washington



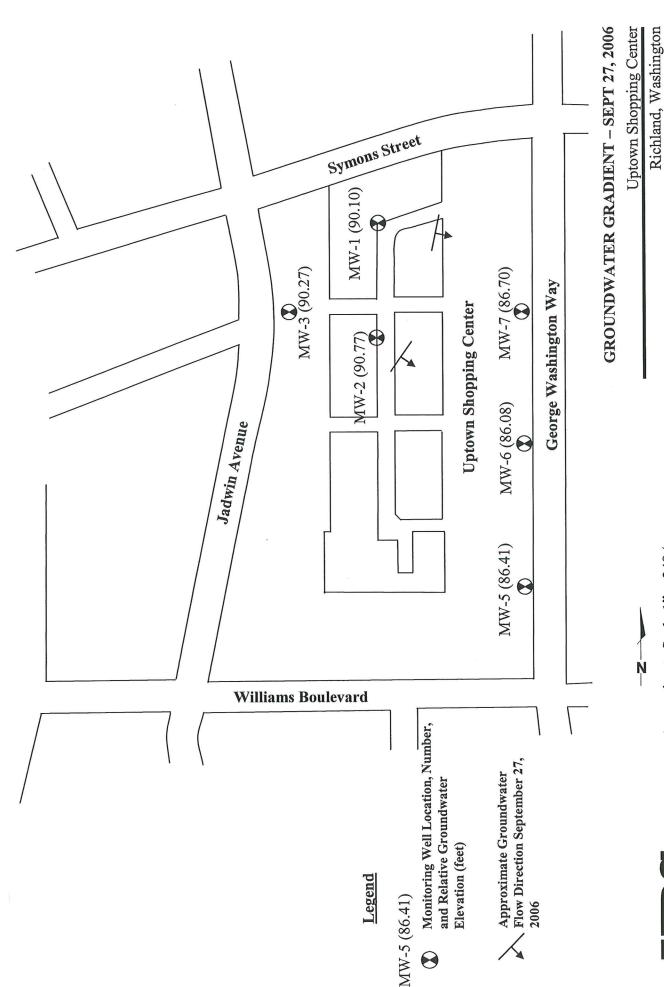
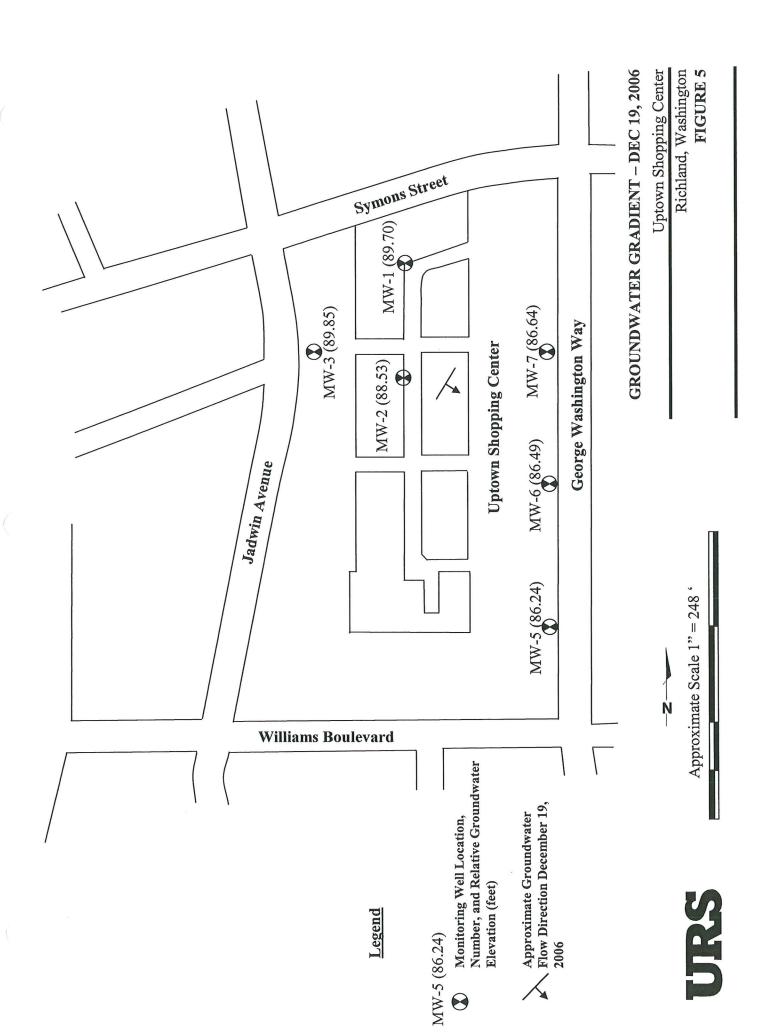


FIGURE 4



Approximate Scale 1" = 248,



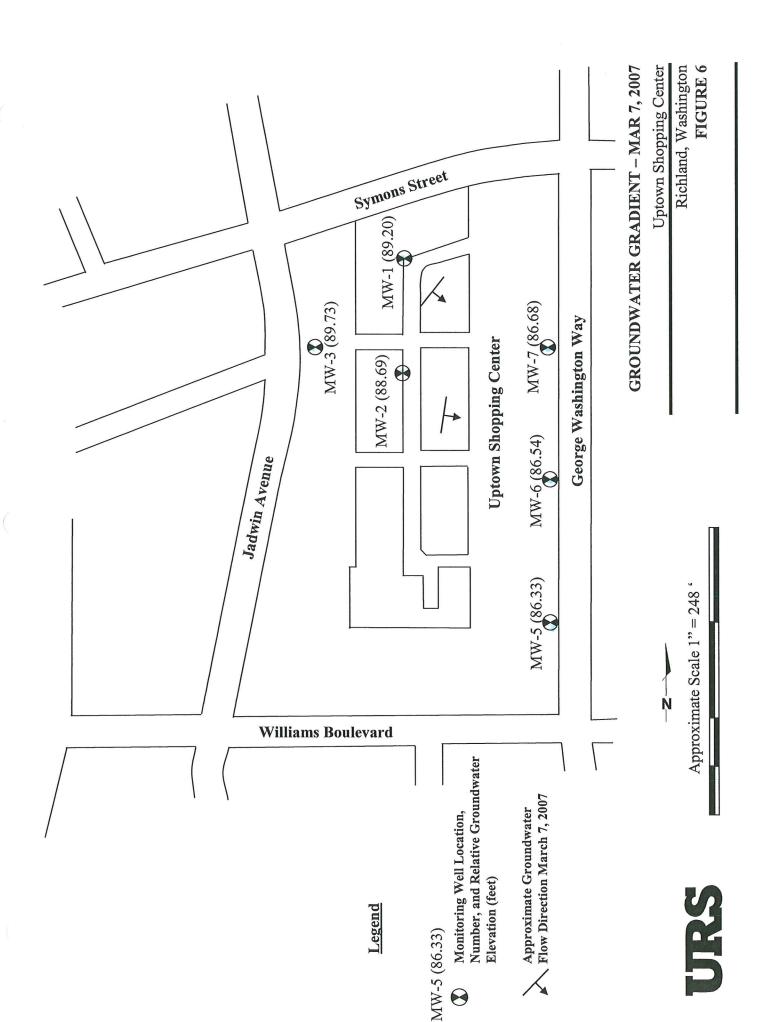




TABLE 1 UPTOWN SHOPPING CENTER RELATIVE GROUNDWATER ELEVATIONS RICHLAND, WASHINGTON

		Well Casing				
Monitoring Well	Sample Date	Elevation <sup>1</sup> (feet)	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Groundwater Elevation (feet) <sup>2</sup>
MW-1	6/13/2006	99.78	9.44	0	00:00	90.34
	9/27/2006	99.78	89.6	0	00:00	90.10
	12/19/2006	99.78	10.08	0	0.00	89.70
	3/7/2007	99.78	9.58	0	0.00	90.20
MW-2	6/13/2006	99.73	10.88	10.55	0.33	89.10
	9/27/2006	99.73	9.21	8.88	0.33	72.06
	12/19/2006	99.73	11.20	0	sheen	88.53
	3/7/2007	99.73	11.19	10.99	0.20	88.69
MW-3	6/13/2006	99.11	8.75	0	0.00	90.36
	9/27/2006	99.11	8.84	0	0.00	90.27
	12/19/2006	99.11	9.26	0	0.00	89.85
	3/7/2007	99.11	9:38	0	0.00	89.73
MW-5	6/13/2006	101.69	14.05	0	0.00	87.64
	9/27/2006	101.69	15.28	0	0.00	86.41
	12/19/2006	101.69	15.45	0	0.00	86.24
	3/7/2007	101.69	15.36	0	0.00	86.33
MW-6	6/13/2006	76.99	11.66	0	0.00	88.31
	9/27/2006	76.96	13.89	0	0.00	86.08
	12/19/2006	76.99	13.48	0	0.00	86.49
	3/7/2007	76.99	13.43	0	0.00	86.54
MW-7	6/13/2006	98.72	10.05	0	0.00	88.67
	9/27/2006	98.72	12.02	0	0.00	86.70
	12/19/2006	98.72	12.08	0	0.00	86.64
	3/7/2007	98.72	12.05	0	0.00	86.67

Notes:

1 Relative elevation based on an arbritary bench mark. 2 Water table elevation is adjusted for product thickness using a factor of 0.75 product thickness.

#### TABLE 2 UPTOWN SHOPPING CENTER SOIL SAMPLING RESULTS RICHLAND, WASHINGTON

	Sample Number:	USCBH1-20	USCBH2-5	USCBH3-10	MTCA Cle	anup Level
Parameter	Depth (ft):	20	5	. 10		
	Sample Date:	6/12/2006	6/12/2006	6/12/2006	Method A	Method B
NWTPH-DX						
Diesel Range Hydrocarbo	ons	<11.7	<12.4	<13.1	2,000	2,000
Heavy Oil Range Hydroc	arbons	<29.1	<31.1	<32.7	2,000	2,000
EPA Method 8260B						
Acetone		<1.17	<1.03	<1.09	-	8,000
Benzene		< 0.0350	< 0.0310	< 0.0326	0.03	18.2
Bromobenzene		< 0.117	< 0.103	<0.109	-	-
Bromochloromethane		< 0.117	< 0.103	< 0.109	-	-
Bromodichloromethane		< 0.117	< 0.103	< 0.109	-	16.1
Bromoform		< 0.117	< 0.103	< 0.109	-	127
Bromomethane		< 0.583	< 0.517	< 0.543	-	112
2-Butanone		<1.17	<1.03	<1.09	-	48,000
n-Butylbenzene		< 0.117	< 0.103	< 0.109	-	-
sec-Butylbenzene		< 0.117	< 0.103	< 0.109	-	-
tert-Butylbenzene		< 0.117	< 0.103	< 0.109	-	-
Carbon Disulfide		< 0.117	< 0.103	< 0.109	-	8,000
Carbon Tetrachloride		< 0.117	< 0.103	< 0.109	-	7.69
Chlorobenzene		< 0.117	< 0.103	< 0.109	-	1,600
Chloroethane		< 0.117	< 0.103	< 0.109	-	-
Chloroform		< 0.117	< 0.103	< 0.109	-	164
Chloromethane	· · · · · · · · · · · · · · · · · · ·	< 0.583	< 0.517	< 0.543	-	76.9
2-Chlorotoluene		< 0.117	<0.103	<0.109	_	-
4-Chlorotoluene		< 0.117	<0.103	<0.109	-	_
Dibromochloromethane		<0.117	<0.103	<0.109	_	11.9
1,2-Dibromo-3-chloropro	onane.	<0.583	< 0.517	<0.543	-	0.714
1,2-Dibromoethane	эрине	<0.117	<0.103	<0.109		-
Dibromomethane		<0.117	<0.103	<0.109		_
1,2-Dichlorobenzene		<0.117	<0.103	<0.109		7,200
1,3-Dichlorobenzene		<0.117	<0.103	<0.109		7,200
1,4-Dichlorobenzene		<0.117	<0.103	<0.109	-	41.7
Dichlorodifluoromethane	<u> </u>	<0.117	<0.103	<0.109		16,000
1,1-Dichloroethane	,	<0.117	<0.103	<0.109		8,000
1,2-Dichloroethane		<0.117	<0.103	<0.109		11
1,1-Dichloroethene		<0.117	<0.103	<0.109		1.67
cis-1,2-Dichloroethene		<0.117	<0.103	<0.109	_	800
trans-1,2-Dichloroethene		<0.117	<0.103	<0.109		1,600
			<0.103	<0.109		14.7
1,2-Dichloropropane		<0.117			-	
1,3-Dichloropropane		<0.117	<0.103	<0.109	-	-
2,2-Dichloropropane		<0.117	<0.103	<0.109	=	-
1,1-Dichloropropene		<0.117	<0.103	<0.109	-	
cis-1,3-Dichloropropene		<0.117	<0.103	<0.109	-	5.56
trans-1,3-Dichloroproper	ne	<0.117	<0.103	<0.109	-	5.56
Ethylbenzene		<0.117	<0.103	<0.109	6.00	8,000
Hexachlorobutadiene		<0.117	<0.103	<0.109	-	12.8
2-Hexanone		<1.17	<1.03	<1.09		-

	Sample Number:	USCBH1-20	USCBH2-5	USCBH3-10	MTCA Cle	anup Level
Parameter	Depth (ft):	20	5	.10		
	Sample Date:	6/12/2006	6/12/2006	6/12/2006	Method A	Method B
Isopropylbenzene		< 0.117	< 0.103	< 0.109	-	-
p-Isopropyltoluene		< 0.117	< 0.103	< 0.109	-	-
Methylene Chloride		<1.17	<1.03	<1.09	0.02	133
4-Methyl-2-pentanone		<1.17	<1.03	<1.09		6,400
Methyl tert-butyl ether		< 0.117	< 0.103	< 0.109	0.10	-
Naphthalene		< 0.233	< 0.207	< 0.217	5.00	1,600
n-Propylbenzene		< 0.117	< 0.103	< 0.109	-	-
Styrene		< 0.117	< 0.103	< 0.109	-	33.3
1,1,1,2-Tetrachloroethane	2	< 0.117	< 0.103	< 0.109	-	38.5
1,1,2,2-Tetrachloroethane	2	< 0.117	< 0.103	< 0.109	-	5.00
Tetrachloroethene		< 0.0350	< 0.0310	< 0.0326	0.05	19.6
Toluene		< 0.117	< 0.103	< 0.109	7.00	16,000
1,2,3-Trichlorobenzene		< 0.117	< 0.103	< 0.109		-
1,2,4-Trichlorobenzene		< 0.117	< 0.103	< 0.109	1	800
1,1,1-Trichloroethane		< 0.117	< 0.103	< 0.109	2.00	72,000
1,1,2-Trichloroethane		< 0.117	< 0.103	< 0.109		17.5
Trichloroethene		< 0.0350	< 0.0310	< 0.0326	0.03	90.9
Trichlorofluoromethane		< 0.117	< 0.103	< 0.109	:=:	24,000
1,2,3-Trichloropropane		< 0.117	< 0.103	< 0.109	-	0.143
1,2,4-Trimethylbenzene		< 0.117	< 0.103	< 0.109	1	=
1,3,5-Trimethylbenzene		< 0.117	< 0.103	< 0.109	-	-
Vinyl Chloride		< 0.117	< 0.103	< 0.109	0.20	0.667
o-Xylene		< 0.233	< 0.207	< 0.217	9.00	160,000
m,p-Xylenes		<0.466	< 0.414	<0.434	9.00	160,000

<sup>1-</sup> Soil results reported in mg/kg.

<sup>2-</sup> Sample depth- feet below ground surface.

# TABLE 3 UPTOWN SHOPPING CENTER GROUNDWATER MONITORING RESULTS RICHLAND, WASHINGTON

		NWTP	NWTPH-Dx1				VOCs <sup>2</sup> (ug/L)			
Monitoring Well	Sample Date	DRPH (ug/L)	HORPH (ug/L)	Chloroethane	Chloroform	cis-1,2- Dichloroethene	Tetrachloroethene	1,2,4- Trimethylbenzene	Trichloroethene	Vinyl Chloride
MW-1	6/13/2006	649	775	5.27	ND	ND	QN	ND	ND	ND
	9/27/2006	<250	<500	ND	ND	ND	QN	ND	ND	Q
	12/19/2006	<250	<500	ND	ND	ND	QN	ND	ND	Q
	3/7/2007	<250	<500	ND	ND	ND	QN	ND	ND	ND
MW-2	6/13/2006	16,400	<500	21.9	ND	QN	30.00	10.80	ND	ND
	9/27/2006	102,000	<5,000	QN	QN	QN	21.70	17.60	ND	ND
	12/19/2006	2,940	<5,000	ND	1.92	QN	48.80	ND	ND	0.264
	3/7/2007	3,000	<5,000	ND	1.99	ND	9.42	1.12	ND	ND
MW-3	6/13/2006	<250	<500	ND	1.78	QN	ΩN	ON	ND	ND
	9/27/2006	<250	<500	ND	2.06	QN	ΩN	ND	ND	ND
Modern Carlos	12/19/2006	<250	<500	QN	2.13	QN	ΩN	ND	ND	ND
>	3/7/2007	<250	<500	QN	2.30	QN	QN	ND	ND	ND
MW-5	6/13/2006	<250	<500	QN	1.58	QN	1.11	QN	ND	ND
	9/27/2006	<250	<500	ND	1.41	ND	1.40	ND	ND	ND
	12/19/2006	<250	<500	QN	1.57	ND	7.58	ND	ND	ND
	3/7/2007	<250	<500	ND	1.62	ND	4.47	ND	ND	ND
MW-6	6/13/2006	<250	<500	4.72	1.17	QN	2.59	QN	ND	ND
	9/27/2006	<250	<500	QN	-	ND	QN	ND	ND	ND
	12/19/2006	<250	<500	ND	1.68	QN	4.14	ND	ND	ND
	3/7/2007	<250	<500	QN	1.90	ND	3.23	ND	ND	ND
MW-7	6/13/2006	<250	<500	ND	5.09	QN	4.86	QN	ND	ND
	9/27/2006	<250	<500	QN	1.60	1.90	21.60	ND	1.74	ND
	12/19/2006	<250	<500	QN	2.22	2.65	24.30	ND	2.01	ND
	3/7/2007	<250	<500	QN	2.24	17.20	49.20	QN	7.87	ND
MTCA Cleanup Levels <sup>3</sup>	Levels <sup>3</sup>	200	500	15	7.2	80	5	400	5	0.2

Notes:

1 Diesel-range petroleum hydrocarbons (DRPH) and heavy oil-range petroleum hydrocarbons (HORPH) by Northwest Method NWTPH-Dx.

2 VOCs = Volatile Organic Compounds by EPA Method 8260B. Only detected analytes shown. See laboratory report for full analyte list and laboratory data qualifiers.

3 MTCA Method A groundwater cleanup levels shown when available. Method B groundwater standard formula value shown when Method A values are not available.

Concentrations exceeding MTCA cleanup levels shown in bold.

ND Not detected at the laboratory method reporting limit

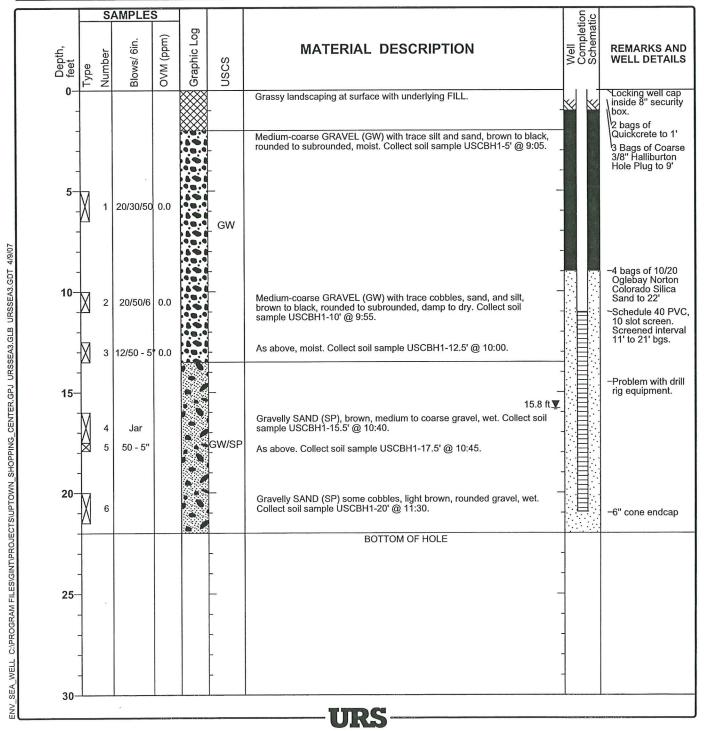
# APPENDIX A BORING LOGS

Project: Uptown Shopping Center Project Location: Richland, WA Project Number: 36298182

# Log of Boring MW-5/BH-1

Sheet 1 of 1

Date(s) Drilled and Installed 6/12/2006	Logged By	Kathleen Kees	Checked By	KAK
Drilling Method HSA	Drilling Contractor	Environmental West Exploration	Total Depth of Borehole	22 feet
Sampling Author 2" Split Spoon	Drill Bit Size/Type	8" OD HSA	Top of Casing Elevation	NA
Size and Type of Well Casing Schedule 40 PVC	Screen Perforation	10 slot schedule 40 PVC	Surface Elevation	NA
Seal or Backfill Coarse 3/8" Halliburton Hole Plug	Location	Uptown Shopping Center		

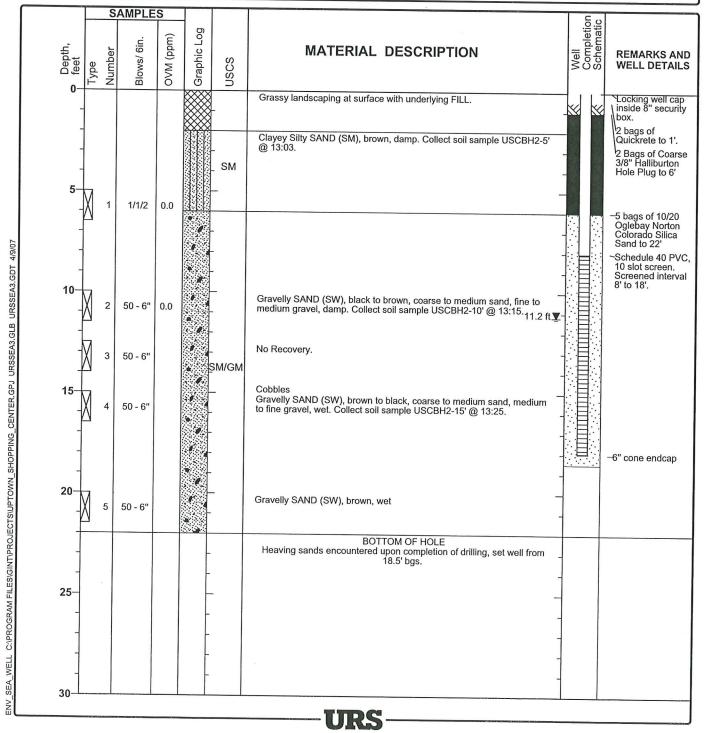


Project: Uptown Shopping Center
Project Location: Richland, WA
Project Number: 36298182

# Log of Boring MW-6/BH-2

Sheet 1 of 1

Date(s) Drilled and Installed 6/12/2006	Logged By	Kathleen Kees	Checked By	KAK
Drilling Method HSA	Drilling Contractor	Environmental West Exploration	Total Depth of Borehole	22 feet
Sampling Method 2" Split Spoon	Drill Bit Size/Type	8" OD HSA	Top of Casing Elevation	NA
Size and Type of Well Casing Schedule 40 PVC	Screen Perforation	10 slot schedule 40 PVC	Surface Elevation	NA
Seal or Backfill Coarse 3/8" Halliburton Hole Plug	Location	Uptown Shopping Center		

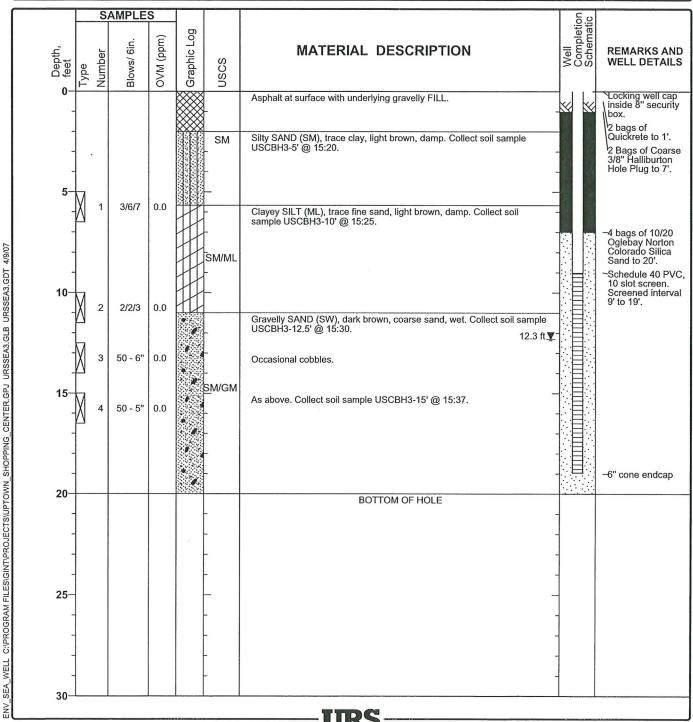


Project: Uptown Shopping Center Project Location: Richland, WA Project Number: 36298182

# Log of Boring MW-7/BH-3

Sheet 1 of 1

Date(s) Drilled and Installed 6/12/2006	Logged By	Kathleen Kees	Checked By	KAK
Drilling Method HSA	Drilling Contractor	Environmental West Exploration	Total Depth of Borehole	20 feet
Sampling Arr Split Spoon	Drill Bit Size/Type	8" OD HSA	Top of Casing Elevation	NA
Size and Type of Well Casing Schedule 40 PVC	Screen Perforation	10 slot schedule 40 PVC	Surface Elevation	NA
Seal or Backfill Coarse 3/8" Halliburton Hole Plug	Location	Uptown Shopping Center	•	



# APPENDIX B WELL CONSTRUCTION DETAILS

## WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: Kathleen Kees

DRILLING CONTRACTOR: Environmental West Exp.

DRILLING TECHNIQUE: Hollow Stem Auger

**AUGER SIZE AND TYPE: 8"** 

BOREHOLE IDENTIFICATION: B-1 BOREHOLE DIAMETER: 8" WELL IDENTIFICATION: MW-5

WELL CONSTRUCTION START DATE: 6/12/06 WELL CONSTRUCTION COMPLETE DATE: 6/12/06

SCREEN MATERIAL: Schedule 40 PVC

SCREEN DIAMETER: 2" 10 slot

STRATUM-SCREENED INTERVAL (FT): 10'

CASING MATERIAL: Schedule 40 PVC

**CASING DIAMETER: 2"** 

TYPE OF FILTER PACK: Oglebay Norton Colorado Silica Sand

**GRADIATION: 10/20** 

AMOUNT OF FILTER PACK USED: 4 Bags

TYPE OF BENTONITE: Coarse 3/8 Halliburton Hole Plug

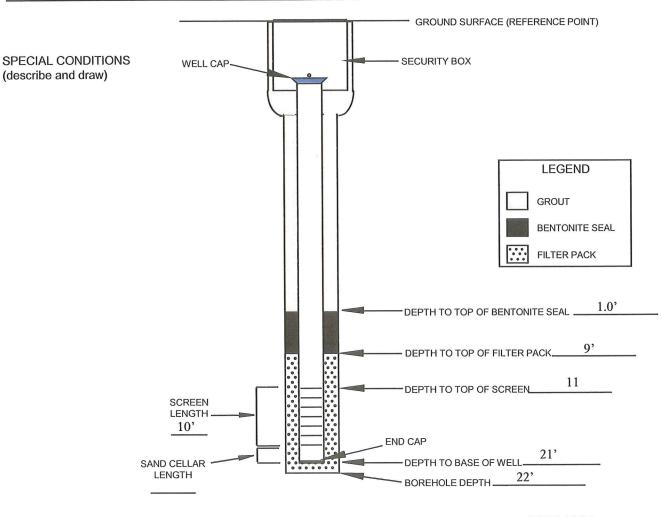
AMOUNT BENTONITE USED: 3 Bags

TYPE OF CEMENT: Quickcrete AMOUNT CEMENT USED: 2 bags GROUT MATERIALS USED: none

**DIMENSIONS OF SECURITY BOX: 8"** 

TYPE OF WELL CAP: locking TYPE OF END CAP: cone – 6"

COMMENTS:



NOT TO SCALE

INSTALLED BY: Environmental West Exp. INSTALLATION OBSERVED BY: Kathleen Kees

DISCREPANCIES: None

#### WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: Kathleen Kees

DRILLING CONTRACTOR: Environmental West Exp.

DRILLING TECHNIQUE: Hollow Stem Auger

**AUGER SIZE AND TYPE: 8"** 

BOREHOLE IDENTIFICATION: B-2 BOREHOLE DIAMETER: 8" WELL IDENTIFICATION: MW-6

WELL CONSTRUCTION START DATE: 6/12/06 WELL CONSTRUCTION COMPLETE DATE: 6/12/06

SCREEN MATERIAL: Schedule  $40~\mathrm{PVC}$ 

SCREEN DIAMETER: 2" 10 slot

STRATUM-SCREENED INTERVAL (FT): 10'

CASING MATERIAL: Schedule 40 PVC

**CASING DIAMETER: 2"** 

TYPE OF FILTER PACK: Oglebay Norton Colorado Silica Sand

GRADIATION: 10/20

AMOUNT OF FILTER PACK USED: 5 Bags

TYPE OF BENTONITE: Coarse 3/8 Halliburton Hole Plug

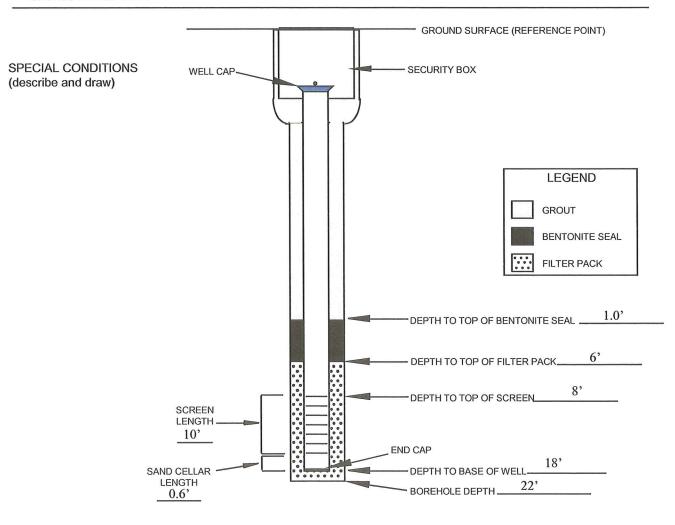
AMOUNT BENTONITE USED: 2 Bags

TYPE OF CEMENT: Quickcrete AMOUNT CEMENT USED: 2 bags GROUT MATERIALS USED: none

**DIMENSIONS OF SECURITY BOX: 8"** 

TYPE OF WELL CAP: locking TYPE OF END CAP: cone – 6"

COMMENTS:



NOT TO SCALE

INSTALLED BY: Environmental West Exp. INSTALLATION OBSERVED BY: Kathleen Kees

DISCREPANCIES: None

## WELL CONSTRUCTION DETAILS AND ABANDONMENT FORM

FIELD REPRESENTATIVE: Kathleen Kees

DRILLING CONTRACTOR: Environmental West Exp.

DRILLING TECHNIQUE: Hollow Stem Auger

AUGER SIZE AND TYPE: 8"

BOREHOLE IDENTIFICATION: BH-3 BOREHOLE DIAMETER: 8" WELL IDENTIFICATION: MW-7

WELL CONSTRUCTION START DATE: 6/12/06 WELL CONSTRUCTION COMPLETE DATE: 6/12/06

SCREEN MATERIAL: Schedule 40 PVC

SCREEN DIAMETER: 2" 10 slot

STRATUM-SCREENED INTERVAL (FT): 10'

CASING MATERIAL: Schedule 40 PVC

CASING DIAMETER: 2"

TYPE OF FILTER PACK: Oglebay Norton Colorado Silica Sand

**GRADIATION: 10/20** 

AMOUNT OF FILTER PACK USED: 4 Bags

TYPE OF BENTONITE: Coarse 3/8 Halliburton Hole Plug

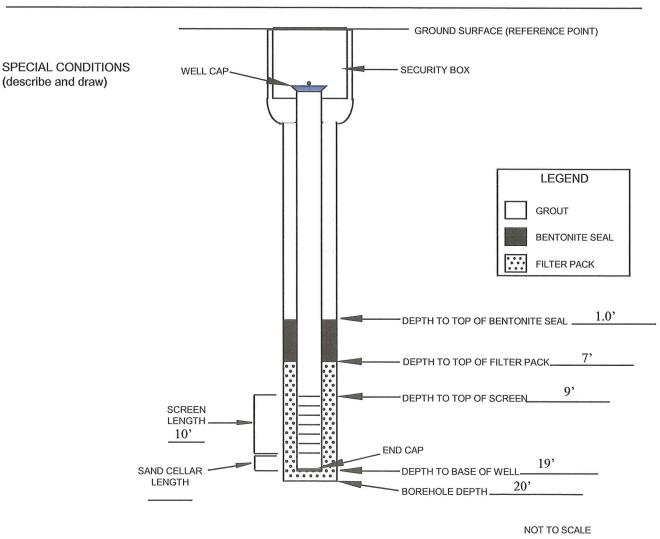
AMOUNT BENTONITE USED: 2 Bags

TYPE OF CEMENT: Quickcrete AMOUNT CEMENT USED: 1 bags GROUT MATERIALS USED: none

DIMENSIONS OF SECURITY BOX: 8"

TYPE OF WELL CAP: locking TYPE OF END CAP: cone – 6"

COMMENTS:



INSTALLED BY: Environmental West Exp. INSTALLATION OBSERVED BY: Kathleen Kees

DISCREPANCIES: None

# APPENDIX C WELL DEVELOPMENT RECORD

## WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID \_\_MW-5\_ SHEET \_1\_\_\_\_ of \_\_1\_\_\_\_

PROJECT NAME:City of Ri	ichland	PROJ	ECT NO. :	:3	5298182_			_ DATI	E:6/12	/06	
LOCATION:Uptown Shoppi	ng Cente	r DA′	TE INSTA	LLED: _	6/12/06						
TOTAL DEPTH (FTOC) _19.6	1	_ CASIN	G DIAME	ETER	_2 inch						
METHODS OF DEVELOPME	<u>NT</u>										
☐ Swabbing	☐ Bailin	ıg	☐ Pump	oing	☐ Des	cribe					
Equipment decontaminated prior to on DescribeDedicated Tubing	-				☑ Y		□ NO				
EQUIPMENT NUMBERS: pH MeterHoriba U-22	EC Met	er			Turbidity M	eter		т	Thermomete	er	
CASING VOLUME INFORMA	ATION:										
Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6
PURGING INFORMATION:  Measured Well Depth (B)19.6  Measured Water Level Depth (C)  Length of Static Water Colume (D)  Casing Water Volume (E) +0.16  (A)  Total Purge Volume =15	13.01 19.61 (B) x6.6_ (I	13.01_ (C)	ft. =6.6				H <sub>2</sub>	O STATELEVA			VATION TOC) MEAI SEA
											LEVEI

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pН	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
6/12/06	18:55	13.01	5 gal.	Har	d Baile	d		Turbid
6/12/06	19:45	13.45	5 gal.	Peris	taltic P	ump		Slightly Turbid
6/12/06	20:20	13.45	5 gal.	Peri	staltic I	'ump		Clear

## WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID \_\_MW-6\_ SHEET \_1\_\_\_\_ of \_\_1\_\_\_

PROJECT NAME:City of Ri	ichland_	PROJ	ECT NO.	:3	6298182_			_ DAT	E:6/12	/06	
LOCATION:Uptown Shoppi	ing Cente	rDA	TE INSTA	LLED: _	6/12/06						
TOTAL DEPTH (FTOC) _17.50	0	_ CASIN	IG DIAM	ETER	_2 inch						
METHODS OF DEVELOPMEN	<u>NT</u>										
☐ Swabbing	☐ Bailin	ıg	☐ Pum	ping	☐ Des	cribe					
Equipment decontaminated prior to or DescribeDedicated Tubing					☑ Y			5	547		
EQUIPMENT NUMBERS: pH MeterHoriba U-22	EC Met	er			Turbidity M	eter		1	Thermomet	er	
CASING VOLUME INFORMA	ATION:										
Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6
PURGING INFORMATION:  Measured Well Depth (B)17.50  Measured Water Level Depth (C)  Length of Static Water Colume (D)  Casing Water Volume (E) +0.16(A)  Total Purge Volume =15	12.20 17.5 (B)x5.3(I	12.2_ =(C)	ft. 5.3	ft.			H <sub>2</sub>	O STATELEVA			/ATION (OC)  MEAN SEA

Date	Time	Water Level (FTOC)	Volume Removed (gal)	pН	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
6/12/06	17:30	11.75	10 gal.	Har	d Baile	d		Turbid
6/12/06	18:00	12.23	5 gal.	Peris	taltic P	ump		Slightly clear

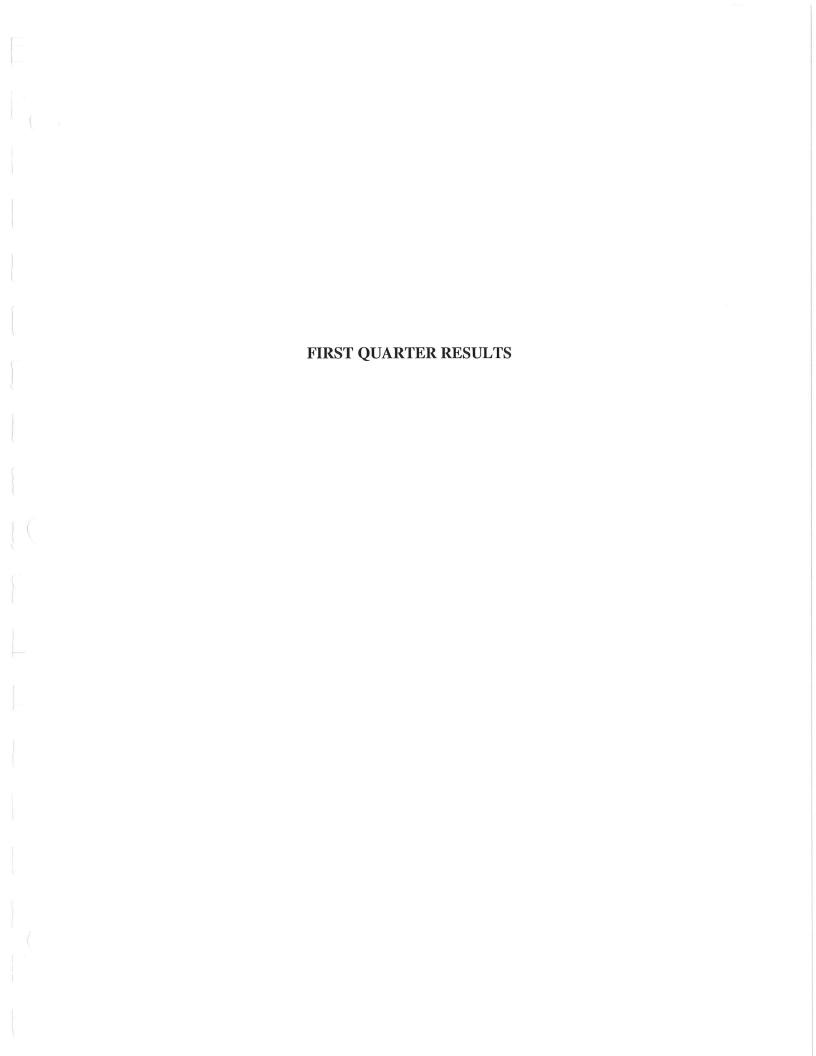
## WELL DEVELOPMENT RECORD

WELL/PIEZOMETER ID \_\_MW-7\_ SHEET \_1\_\_\_\_ of \_\_1\_\_\_\_

PROJECT NAME:City of Ri	chland_	PROJ	ECT NO.	:3	6298182_			DAT	E:6/12	/06	
LOCATION:Uptown Shoppi	ng Cente	er DA'	TE INSTA	LLED: _	6/12/06						
TOTAL DEPTH (FTOC) _19.61	l	_ CASIN	IG DIAM	ETER	2 inch						
EQUIPMENT NUMBERS:  OH MeterHoriba U-22 EC Meter Turbidity Meter Thermometer  CASING VOLUME INFORMATION:  Casing ID (inch)											
Swabbing											
	•				KJ I	es	LI NO	,			
DescribeDedicated Tubing											
CASING VOLUME INFORMA	TION:										
Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6
Measured Water Level Depth (C) Length of Static Water Colume (D) _	_10.19 _18.11 (B)	10.19_= (C)	ft. =7.92				H <sub>2</sub>	~ °	C	ELEV	VATION (TOC)
Casing Water Volume (E) +0.16_ (A)  Total Purge Volume = 55	(I	2=_ D)	1.27 gal	l				STAT ELEVA		<u> </u>	
	- /						-	L	IION		MEAN SEA LEVE

Date	Time	Water Level (FTOC)	Volume Removed (gal)	рН	EC	Temperature F or C	Turbidity/ Sand (ppm)	Comments
6/12/06	17:15	13.9	10 gal.	Har	d Baile	d		Turbid- Purge Dry
6/12/06	17:30	13.45	20 gal.	Har	d Baile	d		Slightly Turbid
6/12/06	17:36	13.45	25 gal.	5.69	.758	17.78	999.0	DO- 11.73
6/12/06	17:36	13.45	30 gal.	6.51	.736	17.34	999.0	DO- 12.26
6/12/06	17:36	"	35 gal.	6.73	.729	17.30	999.0	DO- 11.77
6/12/06	17:36	"	45 gal.	6.95	.743	17.20	999.0	DO- 11.77
6/12/06	17:36	"	55 gal.	7.05	.736	17.17	999.0	DO- 11.68

# APPENDIX D LABORATORY DATA





June 28, 2006

Dave Enos URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212

RE: Uptown Shopping Center

Enclosed are the results of analyses for samples received by the laboratory on 06/14/06 10:55. The following list is a summary of the Work Orders contained in this report, generated on 06/28/06 15:34.

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

Work Order	Project	<u>ProjectNumber</u>	
SPF0117	Uptown Shopping Center	36298182	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
USC MW3 GW01	SPF0117-01	Water	06/13/06 11:30	06/14/06 10:55
USC MW5 GW01	SPF0117-02	Water	06/13/06 12:29	06/14/06 10:55
USC MW6 GW01	SPF0117-03	Water	06/13/06 13:17	06/14/06 10:55
USC MW7 GW01	SPF0117-04	Water	06/13/06 16:58	06/14/06 10:55
USC MW1 GW01	SPF0117-05	Water	06/13/06 18:05	06/14/06 10:55
USC MW2 GW01	SPF0117-06	Water	06/13/06 19:00	06/14/06 10:55

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300

Project Number:

36298182

Report Created:

Spokane, WA 99212

Project Manager:

Dave Enos

06/28/06 15:34

### Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-01 (USC MW3 GW01)		Wa	iter		Samj	pled: 06/1	13/06 11:30			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	lx	6060202	06/16/06 09:12	06/17/06 07:01	
Heavy Oil Range Hydrocarbons	w	ND		0.500	"	ï	"			
Surrogate(s): 2-FBP			86.8%		50	- 150 %	"		"	
p-Terphenyl-d14			83.6%		50	- 150 %	"		"	
SPF0117-02 (USC MW5 GW01)		Wa	iter		Sam	pled: 06/1	13/06 12:29			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	6060202	06/16/06 09:12	06/17/06 07:38	
Heavy Oil Range Hydrocarbons		ND		0.500	*			"	"	
Surrogate(s): 2-FBP			85.2%		50	- 150 %	"		n .	
p-Terphenyl-d14			82.0%		50	- 150 %	"		"	
SPF0117-03 (USC MW6 GW01)		Wa	ater		Sam	pled: 06/	13/06 13:17			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	6060202	06/16/06 09:12	06/17/06 08:14	
Heavy Oil Range Hydrocarbons	w	ND	*****	0.500	"		"		n	
Surrogate(s): 2-FBP			90.5%		50	- 150 %	"		"	
p-Terphenyl-d14			86.8%		50	- 150 %	"		"	
SPF0117-04 (USC MW7 GW01)		Wa	ater		Sam	pled: 06/	13/06 16:58			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	6060202	06/16/06 09:12	06/17/06 08:50	
Heavy Oil Range Hydrocarbons	w	ND		0.500	m i	**	**	"	"	
Surrogate(s): 2-FBP			93.7%		50	- 150 %	n		"	
p-Terphenyl-d14			91.0%		50	- 150 %	"		"	
SPF0117-05 (USC MW1 GW01)		Wa	ater		Sam	pled: 06/	13/06 18:05			
Diesel Range Hydrocarbons	NWTPH-Dx	0.649	المتنات	0.250	mg/l	1x	6060202	06/16/06 09:12	06/19/06 16:51	
Heavy Oil Range Hydrocarbons		0.775		0.500	"	"	"	"	"	
Surrogate(s): 2-FBP			92.6%		50	- 150 %	"		"	
p-Terphenyl-d14			90.5%		50	- 150 %	"		"	
SPF0117-06 (USC MW2 GW01)		Wa	ater		Sam	pled: 06/	13/06 19:00			
Diesel Range Hydrocarbons	NWTPH-Dx	16.4		0.250	mg/l	1x	6060202	06/16/06 09:12	06/19/06 17:27	
Heavy Oil Range Hydrocarbons	п	ND		0.500	11	"	ü	"	"	
Surrogate(s): 2-FBP			189%		50	- 150 %	"		"	SR-4
p-Terphenyl-d14			107%		50	- 150 %	"		n	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182

Dave Enos

Report Created: 06/28/06 15:34

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-01 (USC MW3 GW01)		Wa	ter		Sam	pled: 06/1	3/06 11:30			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	6060225	06/20/06 13:23	06/21/06 15:24	
Benzene	9	ND		1.00	"	"		m .		
Bromobenzene		ND		1.00		"	"		70	
Bromochloromethane	· ·	ND		1.00	u	"	"		n .	
Bromodichloromethane	u	ND	-	1.00	11	"	"	**		
Bromoform	e e	ND		1.00	11	"	"	u	n	
Bromomethane	u	ND	****	5.00	n	н	"	u u	"	
2-Butanone	u	ND		10.0	"	"	"		"	
n-Butylbenzene		ND		1.00	"	"	"		9	
sec-Butylbenzene	n	ND		1.00			"	"		
tert-Butylbenzene	"	ND		1.00			"	u	19	
Carbon disulfide	"	ND		1.00	"			11	· n	
Carbon tetrachloride	"	ND		1.00	"	"	,	п		
Chlorobenzene		ND	*****	1.00	"	"			"	
Chloroethane	n .	ND		1.00	"		"		2"	
Chloroform	•	1.78		1.00		"		"	"	
Chloromethane		ND		5.00	"	"	"		"	
2-Chlorotoluene		ND		1.00		ju .	"		2	
4-Chlorotoluene	"	ND		1.00	"	"	"			
Dibromochloromethane		ND		1.00	"	"	"		"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	"			
1,2-Dibromoethane		ND		1.00	"	"	ü	· ii		
Dibromomethane	22	ND	1 marine	1.00	"	"	"		"	
1,2-Dichlorobenzene	91	ND		1.00	"	"	"		,,	
1,3-Dichlorobenzene		ND		1.00		"	"			
1,4-Dichlorobenzene	u.	ND		1.00		<u></u>	"	"		
Dichlorodifluoromethane	"	ND		1.00	"	311		э	"	
1,1-Dichloroethane	"	ND		1.00		W.	"	in .	9	
1,2-Dichloroethane (EDC)	**	ND		1.00		311		10	,,	
1,1-Dichloroethene	**	ND		1.00	,,	н	"	"		
cis-1,2-Dichloroethene	n.	ND		1.00		31	,,	an .		
trans-1,2-Dichloroethene	n	ND		1.00	"	"	"	i u		
1,2-Dichloropropane		ND		1.00		н	"	"		
1,3-Dichloropropane	н	ND		1.00	"	,,	"	"		
2,2-Dichloropropane		ND		1.00		"	,	"		
1,1-Dichloropropene	"	ND		1.00		,,	n.	"	9.	
cis-1,3-Dichloropropene	"	ND		1.00		**	"	w	o	
trans-1,3-Dichloropropene		ND		1.00		и	n	u		
A set E states										

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-01 (	USC MW3 GW01)		Wa	ter		Samp	led: 06/1	3/06 11:30			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	6060225	06/20/06 13:23	06/21/06 15:24	
Hexachlorobutadien	e		ND		1.00		"	w		n	
2-Hexanone		20	ND		10.0	"	"	"	"	n	
Isopropylbenzene		20	ND		1.00	"	"				
p-Isopropyltoluene		n	ND		1.00	"	"	"		n.	
Methylene chloride		•	ND		5.00		"	"	u u	06/26/06 16:52	
4-Methyl-2-pentano	ne		ND		10.0	"	"		"	06/21/06 15:24	
Methyl tert-butyl eth	ner	•	ND		1.00			"	"	n	
Naphthalene		n	ND		2.00		"		"	n	
n-Propylbenzene		·	ND		1.00			"	"	n	
Styrene		•	ND		1.00		u	"	m m		
1,1,1,2-Tetrachloroe	thane	•	ND		1.00			"	W .	n.	
1,1,2,2-Tetrachloroe	thane	•	ND		1.00		"	"	"		
Tetrachloroethene		•	ND		1.00			,,	"	TI.	
Toluene			ND		1.00			"	"		
,2,3-Trichlorobenze	ene		ND		1.00		"	"	"	n	
1,2,4-Trichlorobenze	ene		ND		1.00			"	"		
1,1,1-Trichloroethan	ne		ND		1.00		"	n n	"	•	
1,1,2-Trichloroethan	ne	·	ND		1.00	•	"	n	v	u u	
Trichloroethene		"	ND		1.00	11	11	n		n	
Trichlorofluorometh	ane	"	ND		1.00	n	"	n .	Tu .		
1,2,3-Trichloropropa	ane		ND		1.00		**	11	"	W.	
1,2,4-Trimethylbenz	tene	"	ND		1.00		n	n	u	o .	
1,3,5-Trimethylbenz	ene		ND		1.00	"	"	"	u	o	
Vinyl chloride		"	ND		0.200	"	"	**	"	0	
o-Xylene			ND		1.00	**	"	n .	"	w.	
m,p-Xylene		u	ND		2.00	п	,,		•	,	
Surrogate(s):	Dibromofluoromethane	!		95.7%		62.9 -	131 %	"		n	
	Toluene-d8			106%			133 %	"		"	
	4-bromofluorobenzene			107%		60.8 -	140 %	"		"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-02 (USC MW	5 GW01)	Wa	iter		Sam	pled: 06/1	3/06 12:29			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	6060225	06/20/06 13:23	06/21/06 16:47	
Benzene	11	ND	*****	1.00	"	OH .	w	"	u.	
Bromobenzene		ND		1.00	"	v	"	H :	"	
Bromochloromethane	"	ND		1.00	"		"		**	
Bromodichloromethane	"	ND		1.00	"	ņ	**		"	
Bromoform	"	ND		1.00	"	in .	"	"	"	
Bromomethane	"	ND		5.00		"	"	н	**	
2-Butanone	n .	ND		10.0	"	"	"	110	**	
n-Butylbenzene	"	ND		1.00		u	"	11.0	**	
sec-Butylbenzene		ND		1.00	"		"	110	"	
tert-Butylbenzene	u u	ND		1.00	ж	10	ar.	10.1	н	
Carbon disulfide	U	ND		1.00	ii.		n		н	
Carbon tetrachloride		ND		1.00		"	an .	110		
Chlorobenzene	25.	ND		1.00	,,		и	ne		
Chloroethane	<u>n</u>	ND		1.00			"	no	"	
Chloroform	<u></u>	1.58		1.00	11		11			
Chloromethane	ji .	ND		5.00			"	**	•	
2-Chlorotoluene	II .	ND		1.00			"	•	•	
4-Chlorotoluene	n	ND		1.00		"	"	**	"	
Dibromochloromethane		ND		1.00		"		**	•	
1,2-Dibromo-3-chloropropane	<u>#</u>	ND		5.00		11%	'n		"	
1,2-Dibromoethane		ND		1.00		"	u		•	
Dibromomethane	<u>n</u>	ND		1.00		*	.0.			
1,2-Dichlorobenzene	.2.	ND		1.00	ж.	Ñ.		п	"	
1,3-Dichlorobenzene	<u></u>	ND		1.00	310	ns.	an		ī	
1,4-Dichlorobenzene	, ii	ND		1.00	и	, in a		и	ii .	
Dichlorodifluoromethane	и	ND		1.00	n	•	11	w	•	
1,1-Dichloroethane	u,	ND		1.00	"	***	"	w	W	
1,2-Dichloroethane (EDC)	.11	ND		1.00	"	*		n	•	
1,1-Dichloroethene	· <u>u</u>	ND		1.00		*	n	<b>JF</b>	11	
cis-1,2-Dichloroethene	n .	ND		1.00	•	"	"	n	71	
trans-1,2-Dichloroethene	"	ND		1.00		H	*	n	"	
1,2-Dichloropropane	"	ND		1.00	(11)	10:	**	11		
1,3-Dichloropropane	.!!	ND	(	1.00	311	n		ii.		
2,2-Dichloropropane	"	ND		1.00		n:				
1,1-Dichloropropene		ND		1.00	н		111		.0	
cis-1,3-Dichloropropene	"	ND		1.00	,		in .			
trans-1,3-Dichloropropene		ND		1.00		"				
Section of Property Property										

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-02 (	USC MW5 GW01)		Wa	ter		Sam	pled: 06/1	3/06 12:29			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	6060225	06/20/06 13:23	06/21/06 16:47	
Hexachlorobutadien	e		ND		1.00		"	"	"	"	
2-Hexanone		и	ND		10.0	"	"		"	,,	
Isopropylbenzene		и	ND	*****	1.00	"	"	in .	"	"	
p-Isopropyltoluene		и	ND		1.00	n	"	n	**	,"	
Methylene chloride		38	ND		5.00	"		"		06/26/06 17:54	
4-Methyl-2-pentano	ne	и	ND		10.0	"	"	"		06/21/06 16:47	
Methyl tert-butyl eth	ner	m .	ND		1.00		"		"	311	
Naphthalene		"	ND		2.00	"		"	"	lii .	
n-Propylbenzene			ND		1.00		"	"		:0	
Styrene			ND		1.00	п	"	"	,,	3 <b>11</b>	
1,1,1,2-Tetrachloroe	ethane	ш	ND		1.00	"	"	*		aii.	
1,1,2,2-Tetrachloroe	ethane		ND		1.00	н	"	,,		100	
Tetrachloroethene			1.11		1.00	"		"	**	20	
Toluene		in .	ND		1.00		ж	"	· ·	u	
.,2,3-Trichlorobenz	ene	""	ND		1.00	***	"	"	"	"	
1,2,4-Trichlorobenz	ene	· u	ND		1.00		310		.,		
1,1,1-Trichloroethar	ne		ND		1.00	ж			•	. 11	
1,1,2-Trichloroethan	ne		ND		1.00			11	"	"	
Trichloroethene		n .	ND		1.00	m.	311			"	
Trichlorofluorometh	nane	"	ND		1.00	"	ж	11.		10.1	
1,2,3-Trichloroprop	ane		ND		1.00	10	111	"		ii i	
1,2,4-Trimethylbenz	zene	"	ND		1.00	"	"	*	"	<b>10</b> %	
1,3,5-Trimethylbenz	zene		ND		1.00	"	n	"	"	"	
Vinyl chloride		•	ND		0.200	н	w	п	"	u :	
o-Xylene			ND		1.00	н	in .	*	"		
m,p-Xylene		"	ND		2.00	"			"	ii.	
Surrogate(s):	Dibromofluoromethane			109%		62.9	- 131 %	"		"	
	Toluene-d8			104%			' - 133 %	n		"	
	4-bromofluorobenzene			110%		60.8	8 - 140 %	n		"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-03 (USC MW6 GW01)		Wa	ter		Sam	pled: 06/1	3/06 13:17			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	6060225	06/20/06 13:23	06/21/06 17:15	
Benzene	n	ND		1.00	10	"		"	w	
Bromobenzene		ND		1.00		"	"		"	
Bromochloromethane		ND		1.00	"				"	
Bromodichloromethane	Ü	ND		1.00	"		"			
Bromoform	Ti .	ND		1.00	"	u.	"	"		
Bromomethane		ND		5.00	"		"	**		
2-Butanone	"	ND		10.0			•		*	
n-Butylbenzene	n	ND		1.00	*		"	"	ж	
sec-Butylbenzene	н	ND		1.00			"	"		
tert-Butylbenzene		ND		1.00			"	"	"	
Carbon disulfide	"	ND	*****	1.00		"	"	""	и	
Carbon tetrachloride	н	ND		1.00	"	10		**	n	
Chlorobenzene	n	ND		1.00	"	**				
Chloroethane		4.72	****	1.00	n	**	n	•		
Chloroform	m.	1.17		1.00	n.			"	310	
Chloromethane		ND		5.00		"	"	"	и	
2-Chlorotoluene	"	ND		1.00	.11			u	•	
4-Chlorotoluene	"	ND		1.00	m			"	**	
Dibromochloromethane	"	ND		1.00	"		"	"	•	
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	u.	W.		
1,2-Dibromoethane		ND		1.00	· m	'n	"		•	
Dibromomethane		ND		1.00	111		"			
1,2-Dichlorobenzene	u.	ND		1.00		.11.		н	•	
1,3-Dichlorobenzene	u	ND		1.00	·m		11	W	•	
1,4-Dichlorobenzene	"	ND		1.00		"		u.		
Dichlorodifluoromethane	n.	ND		1.00	**	"	"	"	•	
1,1-Dichloroethane		ND		1.00			**	n	•	
1,2-Dichloroethane (EDC)	u.	ND		1.00	.31			n	"	
1,1-Dichloroethene	u	ND	(	1.00		"	**	"	ñ.	
cis-1,2-Dichloroethene	<u></u>	ND	(*****)	1.00			"	"	,	
trans-1,2-Dichloroethene		ND		1.00			n	W	Ū.	
1,2-Dichloropropane		ND		1.00	***	, ii	n			
1,3-Dichloropropane		ND		1.00		n	n	11		
2,2-Dichloropropane		ND		1.00	"	"	"	**	*	
1,1-Dichloropropene		ND		1.00	"		n	"	ñ	
cis-1,3-Dichloropropene	"	ND		1.00	"	3 <b>n</b>	n	w.		
trans-1,3-Dichloropropene	"	ND		1.00			n	n		
1,0 2		· · · ·								

TestAmerica - Spokane, WA

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11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-03 (USC MW6 GW01)		Wa	ter		Sam	pled: 06/1	3/06 13:17			
Ethylbenzene	EPA 8260B	ND		1.00	ug/l	1x	6060225	06/20/06 13:23	06/21/06 17:15	
Hexachlorobutadiene	w:	ND		1.00	'n	11	"	w w	ű	
2-Hexanone	H:	ND		10.0	n	"	"	"	"	
Isopropylbenzene	H.	ND		1.00	"	"	"	,,	"	
p-Isopropyltoluene		ND		1.00	n	"	"	-10		
Methylene chloride		ND		5.00		"	"		06/26/06 18:24	
4-Methyl-2-pentanone		ND		10.0		"	"		06/21/06 17:15	
Methyl tert-butyl ether	"	ND		1.00		"	"	ü	•	
Naphthalene		ND		2.00		"	"	. "		
n-Propylbenzene	11:	ND		1.00		,,		ü	ü	
Styrene	н	ND		1.00	"	"	"		•	
1,1,1,2-Tetrachloroethane	m.	ND		1.00	o.	"	·	"		
1,1,2,2-Tetrachloroethane	ю	ND		1.00			"	ü	•	
Tetrachloroethene	н	2.59		1.00	111		**	"	11	
Toluene	•	ND		1.00	"	"	"		•	
,2,3-Trichlorobenzene	•	ND		1.00	"	"	"		11	
1,2,4-Trichlorobenzene	•	ND		1.00	11	n	"		n	
1,1,1-Trichloroethane	u	ND		1.00	н	n	"	11	n .	
1,1,2-Trichloroethane	•	ND		1.00	u	п	"		"	
Trichloroethene	**	ND		1.00	"	и	"	11	m.	
Trichlorofluoromethane	и	ND		1.00			"	•	•	
1,2,3-Trichloropropane	11	ND		1.00			"	"	•	
1,2,4-Trimethylbenzene	n	ND		1.00	•	**	"	U	W.	
1,3,5-Trimethylbenzene	n	ND		1.00	·					
Vinyl chloride	н	ND		0.200				W.	Ü.	
o-Xylene	н	ND		1.00	•	*	"	n	· ·	
m,p-Xylene	W.	ND		2.00	"	"	"	н	m)	
Surrogate(s): Dibromofluoromethane			104%		62.9	- 131 %	"		"	
Toluene-d8			103%			7 - 133 %	"		"	
4-bromofluorobenzene			108%		60.8	3 - 140 %	"		"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-04 (USC MW7 GW01	1)	Wa	iter		Sam	pled: 06/1	3/06 16:58			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	6060225	06/20/06 13:23	06/21/06 17:42	
Benzene	"	ND		1.00	"	п	"	"	"	
Bromobenzene	**	ND		1.00	n	"	n	**		
Bromochloromethane	n	ND		1.00	и	*	"	н	u	
Bromodichloromethane	n .	ND		1.00		"	"	**	u	
Bromoform	W	ND		1.00	**	"	9	•		
Bromomethane	"	ND		5.00			"			
2-Butanone	•	ND		10.0	"	"	"		"	
n-Butylbenzene		ND		1.00	"	"	"	**	"	
sec-Butylbenzene	u	ND	*****	1.00	"	"	"	"		
tert-Butylbenzene		ND		1.00	"	"	"	"	"	
Carbon disulfide		ND		1.00	"	"	n	"	"	
Carbon tetrachloride	ű	ND		1.00	11		0	**		
Chlorobenzene	ñ	ND		1.00	n		"	"	"	
Chloroethane		ND		1.00	"	"			"	
Chloroform	m.	5.09	(*****	1.00	"	"	"		•	
Chloromethane	n.	ND		5.00		"	"	"	"	
2-Chlorotoluene	m .	ND		1.00		"	"	"	"	
4-Chlorotoluene		ND		1.00	"	'n	"	"	"	
Dibromochloromethane		ND		1.00		"	"	"	n n	
1,2-Dibromo-3-chloropropane	0	ND		5.00	н	"	"	"	0.0	
1,2-Dibromoethane		ND		1.00		"	"	"	"	
Dibromomethane	n	ND		1.00		"	"	"	0	
1,2-Dichlorobenzene	m.	ND		1.00		"	"		"	
1,3-Dichlorobenzene	n.	ND		1.00	н	"	"	"	n	
1,4-Dichlorobenzene	n .	ND		1.00		"	"	"	"	
Dichlorodifluoromethane	n i	ND		1.00		"	"	"	"	
1,1-Dichloroethane	н	ND		1.00			"		"	
1,2-Dichloroethane (EDC)	w	ND		1.00	"	"	"	"	,	
1,1-Dichloroethene		ND		1.00		"	"	"	"	
cis-1,2-Dichloroethene	"	ND		1.00	"	"	"		m ·	
trans-1,2-Dichloroethene	w	ND		1.00	"	"	"			
1,2-Dichloropropane	"	ND		1.00	н	u	"	U	m <sup>n</sup>	
1,3-Dichloropropane	•	ND		1.00	n	"	"	"	"	
2,2-Dichloropropane	"	ND		1.00	п	"	"	ũ	"	
1,1-Dichloropropene	w	ND		1.00	н	"	'n	u	"	
cis-1,3-Dichloropropene	w	ND		1.00	n	"	"	n .	"	
trans-1,3-Dichloropropene	"	ND		1.00	**	"	"	n n	"	

TestAmerica - Spokane, WA

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11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

Project Manager:

**Uptown Shopping Center** 

Project Number: 36298182

Dave Enos

Report Created:

06/28/06 15:34

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-04 (USC MW7 GW01)		Wa	ter		Sam	pled: 06/1	3/06 16:58			
Ethylbenzene	EPA 8260B	ND		1.00	ug/l	1x	6060225	06/20/06 13:23	06/21/06 17:42	
Hexachlorobutadiene		ND		1.00	n,	H.C.	w	n:		
2-Hexanone	п	ND		10.0	"				**	
Isopropylbenzene		ND	*****	1.00	"			*	".	
p-Isopropyltoluene	и	ND		1.00	"	"			m .	
Methylene chloride	n	ND		5.00	"			TO:	06/26/06 18:55	
4-Methyl-2-pentanone		ND		10.0	"	"		,,	06/21/06 17:42	
Methyl tert-butyl ether	w.	ND		1.00		"	**	w	"	
Naphthalene	10	ND		2.00		***	'n	**	311	
n-Propylbenzene	m	ND		1.00		"	· u	n	30	
Styrene	щ	ND		1.00	**		т	н		
1,1,1,2-Tetrachloroethane	· u	ND		1.00	n	"	**	n	"	
1,1,2,2-Tetrachloroethane	n .	ND		1.00	н	ji.	"	n	n .	
Tetrachloroethene		4.86		1.00	"	"	"	•		
Toluene	: 10	ND		1.00	"	n	"	w	**	
,2,3-Trichlorobenzene	,,	ND		1.00	"	"	ü	100		
1,2,4-Trichlorobenzene	"	ND		1.00					"	
1,1,1-Trichloroethane	п	ND		1.00	in.	n			"	
1,1,2-Trichloroethane	u u	ND		1.00	u	"		Sec.	"	
Trichloroethene	н	ND		1.00				.11	"	
Trichlorofluoromethane	n:	ND		1.00		311.			.11	
1,2,3-Trichloropropane	u.	ND		1.00	311	39.			: iii	
1,2,4-Trimethylbenzene	m <sup>1</sup>	ND		1.00	**	HC.	**	и	.11	
1,3,5-Trimethylbenzene	u ·	ND		1.00	111	31.			u	
Vinyl chloride	m ·	ND		0.200	in.	э	"	· ·	n n	
o-Xylene		ND		1.00		m.		"	ii .	
m,p-Xylene	11.	ND		2.00	"	п	0	W	n	
Surrogate(s): Dibromofluoromethane			107%		62.9	- 131 %	"		"	
Toluene-d8			103%			- 133 %	"		"	
4-bromofluorobenzene			107%		60.8	- 140 %	"		n	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-05 (USC MW1 GW01)		Wa	ter		Sam	pled: 06/1	3/06 18:05			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	6060225	06/20/06 13:23	06/21/06 18:10	
Benzene		ND		1.00	"	"	н	m l	0	
Bromobenzene		ND		1.00	υÜ	"	"	m.		
Bromochloromethane		ND		1.00		"	"		0.7	
Bromodichloromethane	ш	ND		1.00	0	"	"		•	
Bromoform	ĬĒ.	ND		1.00	"	"	"		•	
Bromomethane	n.	ND		5.00	Ü	"			m (	
2-Butanone		ND		10.0	n	n	"	"	• (	
n-Butylbenzene	"	ND		1.00	"		"	0	0	
sec-Butylbenzene		ND		1.00	"	n	"			
tert-Butylbenzene		ND	1	1.00	"	н	"	n .	"	
Carbon disulfide		ND		1.00	"	и	"	**	u (	
Carbon tetrachloride		ND		1.00	"	"	W.	"	"	
Chlorobenzene	ni .	ND		1.00	"		"		**	
Chloroethane	:16	5.27		1.00	"	11	"	"	"	
Chloroform	n	ND		1.00		"	"	n	n	
Chloromethane	п	ND		5.00	"	u	w	n	m.	
2-Chlorotoluene	n .	ND		1.00	"	.0		"	и	
4-Chlorotoluene	н	ND		1.00	"	"	ii .	"	"	
Dibromochloromethane		ND		1.00	"	"	"	"		
1,2-Dibromo-3-chloropropane		ND		5.00	"			п	n	
1,2-Dibromoethane	н	ND		1.00	"			"	**	
Dibromomethane	"	ND		1.00	"	"	"	"	"	
1,2-Dichlorobenzene	**	ND		1.00	"		"		"	
1,3-Dichlorobenzene	W .	ND		1.00	"	"			"	
1,4-Dichlorobenzene	II .	ND		1.00		"	"		n	
Dichlorodifluoromethane	"	ND		1.00	"	"	"	**	n	
1,1-Dichloroethane	"	ND	*****	1.00		"			"	
1,2-Dichloroethane (EDC)	"	ND		1.00	"	ī.		,,,	"	
1,1-Dichloroethene	n	ND		1.00	"	"	"	"	n	
cis-1,2-Dichloroethene	н	ND		1.00	"	"	"	"	•	
trans-1,2-Dichloroethene	и	ND		1.00	"	"	"	11	,	
1,2-Dichloropropane	"	ND		1.00	"	"	н		n	
1,3-Dichloropropane	•	ND		1.00	"		11	n		
2,2-Dichloropropane		ND		1.00			"	11	•	
1,1-Dichloropropene	iii	ND		1.00	"		"			
cis-1,3-Dichloropropene	· iii	ND		1.00	"	•	n			
trans-1,3-Dichloropropene		ND		1.00	**		n		n	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain  $of\ custody\ document.\ This\ analytical\ report\ must\ be\ reproduced\ in\ its\ entirety.$ 





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-05 (U	JSC MW1 GW01)		Wa	ter		Samj	pled: 06/1	3/06 18:05			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	lx	6060225	06/20/06 13:23	06/21/06 18:10	
Hexachlorobutadiene		Ü.	ND		1.00	"	"				
2-Hexanone		**	ND		10.0	"			"	W.	
Isopropylbenzene		*	ND		1.00	"	"	п	"	11	
p-Isopropyltoluene			ND		1.00	"	"	н	"	•	
Methylene chloride		ĬĪ.	ND		5.00	"		"	"	06/26/06 19:25	
4-Methyl-2-pentanon	e		ND		10.0	"	"	"		06/21/06 18:10	
Methyl tert-butyl ethe	er	·	ND		1.00	"	"		*		
Naphthalene			ND		2.00	•	"		•	"	
n-Propylbenzene			ND		1.00		100		Ü	To the state of th	
Styrene		"	ND		1.00	"		"	,	"	
1,1,1,2-Tetrachloroet	hane	**	ND		1.00	"		"			
1,1,2,2-Tetrachloroet	hane		ND		1.00	v				"	
Tetrachloroethene		•	ND		1.00	ü	u	**		v	
Toluene		"	ND		1.00	u	"	w.	"	U	
1,2,3-Trichlorobenze	ne		ND		1.00	ü	"	· ·	"	0	
1,2,4-Trichlorobenze	ne		ND		1.00	"	**	n n	*	"	
1,1,1-Trichloroethane	e		ND		1.00	н	ñ	n	"		
1,1,2-Trichloroethane	е	"	ND		1.00	"	ű.				
Trichloroethene		н	ND		1.00	ï	"	п	WE.	"	
Trichlorofluorometha	ane		ND		1.00	"	n	11		ii .	
1,2,3-Trichloropropa	ne		ND		1.00	Ü		m .	• 1	"	
1,2,4-Trimethylbenze	ene		ND		1.00	"		"	"		
1,3,5-Trimethylbenze			ND		1.00	w		"		"	
Vinyl chloride			ND		0.200	Ü		•	•	"	
o-Xylene		"	ND		1.00	"		"	"	"	
m,p-Xylene		**	ND		2.00		n	"	"	п	
Surrogate(s):	Dibromofluoromethane			100%		62.9	- 131 %	"		"	
	Toluene-d8			104%			- 133 %	"		"	
	4-bromofluorobenzene			108%		60.8	- 140 %	"		"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-06 (USC MW2 GW01)		Wa	iter		Sam	pled: 06/1	3/06 19:00			
Acetone	EPA 8260B	ND		250	ug/l	10x	6060225	06/20/06 13:23	06/21/06 18:38	
Benzene	n n	ND		10.0	н	"	"			
Bromobenzene	"	ND		10.0	n	"		,,,	,"	
Bromochloromethane	"	ND		10.0			n.	11	n	
Bromodichloromethane		ND	*****	10.0	,,,	"	,,	н	"	
Bromoform	"	ND		10.0	"	"	"	"	n	
Bromomethane		ND		50.0	"	"	"	**	,,	
2-Butanone		ND		100		и	"	811		
n-Butylbenzene		ND		10.0	n	w	"		ж	
sec-Butylbenzene	"	ND		10.0	30		"	**	"	
tert-Butylbenzene	11	ND		10.0		jr.		**		
Carbon disulfide	и	ND		10.0	"		in.	**	н	
Carbon tetrachloride		ND		10.0		"	"		н	
Chlorobenzene		ND		10.0	"	"	"	u	n	
Chloroethane	u.	21.9		10.0	п	,,	"	n	n	
Chloroform		ND		10.0	in.		"	ï	"	
Chloromethane		ND	*****	50.0		"	"	"	"	
2-Chlorotoluene	"	ND		10.0	**				ü	
4-Chlorotoluene		ND		10.0		Э		"		
Dibromochloromethane		ND		10.0	п	(m.			"	
1,2-Dibromo-3-chloropropane	91	ND		50.0	an .	811	"		"	
1,2-Dibromoethane	<b>1</b> 12	ND		10.0	· n			**	"	
Dibromomethane	207	ND		10.0		111	"	**	"	
1,2-Dichlorobenzene	n i	ND		10.0	in .	in .		<b>n</b> :	"	
1,3-Dichlorobenzene	N.	ND		10.0		н	**		"	
1,4-Dichlorobenzene		ND		10.0		**	"	ii .	"	
Dichlorodifluoromethane	9	ND		10.0			n		"	
1,1-Dichloroethane		ND		10.0	. 11	en .	т.	ii -	"	
1,2-Dichloroethane (EDC)		ND		10.0	"	"	"	**	Ü	
1,1-Dichloroethene		ND		10.0	"	u		"	"	
cis-1,2-Dichloroethene	*	ND		10.0	**	an .	n	u	"	
trans-1,2-Dichloroethene		ND		10.0	**	n .		"	"	
1,2-Dichloropropane	•	ND		10.0	*	· n		"	"	
1,3-Dichloropropane	•	ND		10.0	•	in.	**			
2,2-Dichloropropane	m.	ND		10.0		- 11		и:	"	
1,1-Dichloropropene		ND		10.0		"	"	"	"	
cis-1,3-Dichloropropene		ND		10.0			, , ,			
trans-1,3-Dichloropropene	"	ND		10.0				"	"	
1,5 2										

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0117-06 (U	SC MW2 GW01)		Wa	ter		Sam	pled: 06/1	3/06 19:00			
Ethylbenzene		EPA 8260B	ND		10.0	ug/l	10x	6060225	06/20/06 13:23	06/21/06 18:38	
Hexachlorobutadiene		÷n	ND		10.0	"			"	"	
2-Hexanone		"	ND		100	"	"	**	•	u	
Isopropylbenzene			ND		10.0	"		**	u u	Tit.	
p-Isopropyltoluene			ND		10.0	**	"	"	"	n	
Methylene chloride		"	ND		5.00	**	lx	11	"	06/26/06 19:55	
4-Methyl-2-pentanone	e	п	ND		100	"	10x		"	06/21/06 18:38	
Methyl tert-butyl ethe	er	"	ND		10.0	"	"	"	"	n	
Naphthalene		"	ND		20.0	"	"		"	, u	
n-Propylbenzene		**	ND		10.0	"	"	и	"	"	
Styrene		"	ND		10.0	"	"	n	"	n	
1,1,1,2-Tetrachloroeth	hane	T.	ND		10.0	n	"	"	"	·.	
1,1,2,2-Tetrachloroeth	hane	m:	ND		10.0	"		"	"		
Tetrachloroethene			30.0		10.0		ű	"	**	"	
Toluene			ND		10.0	"		"	н	"	
1,2,3-Trichlorobenzer	ne		ND		10.0	н		"			
1,2,4-Trichlorobenzer	ne	•	ND		10.0		"	n		n.	
1,1,1-Trichloroethane	2	,,	ND		10.0	"	Ü	"	"		
1,1,2-Trichloroethane		u.	ND		10.0	"	"	"	"	11	
Trichloroethene		*	ND		10.0		"	"			
Trichlorofluorometha	ine	n	ND		10.0	""	"	"			
1,2,3-Trichloropropar	ne	11	ND		10.0		<b>"</b>	"	•	W	
1,2,4-Trimethylbenz	ene	"	10.8		10.0			"	"	W	
1,3,5-Trimethylbenze	ene	w	ND		10.0	"	"	"	"		
Vinyl chloride		W.	ND		2.00	"		"	я,	n	
o-Xylene		TC.	ND		10.0	"	н	u			
m,p-Xylene		m .	ND		20.0	"	"	"	"	n	
Surrogate(s):	Dibromofluoromethane			107%		62.9	0 - 131 %	Ix		"	
(A)	Toluene-d8			103%			7 - 133 %	"		"	
	4-bromofluorobenzene			105%		60.8	3 - 140 %	"		"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/28/06 15:34

#### Semivolatile Petroleum Products by NWTPH-Dx - Laboratory Quality Control Results TestAmerica - Spokane, WA QC Batch: 6060202 Water Preparation Method: EPA 3510/600 Series Spike Source Method Result MDL\* MRL Units Dil (Limits) Analyzed Notes Analyte REC Extracted: 06/16/06 09:12 Blank (6060202-BLK1) 0.250 06/17/06 04:35 NWTPH-Dx ND mg/l 1x Diesel Range Hydrocarbons 0.500 ND Heavy Oil Range Hydrocarbons 06/17/06 04:35 Limits: 50-150% Surrogate(s): 2-FBP Recovery: 87.0% 50-150% p-Terphenyl-d14 84.5% Extracted: 06/16/06 09:12 LCS (6060202-BS1) 2.50 95.2% (50-150) 06/17/06 05:12 Diesel Range Hydrocarbons NWTPH-Dx 2.38 0.250 06/17/06 05:12 Surrogate(s): 2-FBP 100% Limits: 50-150% 50-150% p-Terphenyl-d14 95.0% Extracted: 06/16/06 09:12 LCS Dup (6060202-BSD1) 2.50 96.0% (50-150) 0.837% (11.8) 06/17/06 05:48 0.250 1x Diesel Range Hydrocarbons NWTPH-Dx 2.40 mg/l 06/17/06 05:48 Limits: 50-150% Surrogate(s): 2-FBP Recovery: 101% p-Terphenyl-d14 94.0% 50-150%

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300

Project Number:

36298182

Report Created:

Spokane, WA 99212

Project Manager: Dave Enos 06/28/06 15:34

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

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6060225-BLK1)								Extr	acted:	06/20/06 13	:23			
Acetone	EPA 8260B	ND		25.0	ug/l	1x							06/20/06 13:53	
Benzene	W.	ND		1.00	"	"							н	
Bromobenzene	n	ND		1.00		"							"	
Bromochloromethane	w	ND		1.00	"	"							"	
Bromodichloromethane		ND		1.00		"				-			"	
Bromoform		ND		1.00	"	"							**	
Bromomethane	u u	ND		5.00		"							"	
2-Butanone	"	ND		10.0	"								н	
n-Butylbenzene		ND		1.00	"	"							u .	
sec-Butylbenzene	н	ND		1.00	"	"								
ert-Butylbenzene		ND		1.00	"	"							"	
Carbon disulfide	m.	ND		1.00	"								II .	
Carbon tetrachloride	m.	ND		1.00	•								3. <b>11</b>	
Chlorobenzene	н	ND	***	1.00	"	0							n	
hloroethane	n	ND		1.00		0							ü	
Chloroform	н	ND		1.00		u					-		"	
Chloromethane	n.	ND		5.00	u							S-3	II .	
2-Chlorotoluene	u	ND		1.00									U	
4-Chlorotoluene	11	ND		1.00	**	113							ü	
Dibromochloromethane	п	ND		1.00	*	U							ü	
1,2-Dibromo-3-chloropropane	m .	ND		5.00	n	"					-		n	
1,2-Dibromoethane	**	ND		1.00	"	"							"	
Dibromomethane	"	ND		1.00	"			-					"	
1,2-Dichlorobenzene	U	ND		1.00			••						ii .	
1,3-Dichlorobenzene	n	ND		1.00	"									
1,4-Dichlorobenzene	n	ND		1.00		"		••	•••				II .	
Dichlorodifluoromethane	я	ND		1.00									"	
1,1-Dichloroethane	n	ND		1.00	"								ii.	
1,2-Dichloroethane (EDC)		ND		1.00		"							11	
1,1-Dichloroethene	in .	ND		1.00	"	"	••						m .	
cis-1,2-Dichloroethene		ND	•••	1.00	"	"							m t	
rans-1,2-Dichloroethene	OH .	ND		1.00	"	11							II .	
1,2-Dichloropropane	u	ND		1.00	"	"								
1,3-Dichloropropane		ND		1.00	·	"							"	
2,2-Dichloropropane	.n	ND		1.00	"	"		**						
1,1-Dichloropropene	10	ND		1.00	"								9	
cis-1,3-Dichloropropene	i ii	ND		1.00	311	"					-		u.	
trans-1,3-Dichloropropene	, ii	ND		1.00	"	"					••	••	w	
Ethylbenzene		ND		1.00						-				

TestAmerica - Spokane, WA

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11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300

Project Name: Project Number:

36298182 Dave Enos Report Created:

Spokane, WA 99212

Project Manager:

06/28/06 15:34

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

TestAmerica - Spokane, WA

QC Batch: 6060225	Water P	reparation N	Method: GC	C/MS Vol	atiles									
nalyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	) Analyzed	No
Blank (6060225-BLK1)								Extr	acted:	06/20/06 13	3:23			
Hexachlorobutadiene	EPA 8260B	ND	***	1.00	ug/l	1x						**	06/20/06 13:53	
-Hexanone		ND		10.0	"								"	
sopropylbenzene	•	ND		1.00	an .	"							u	
-Isopropyltoluene	<b>347</b>	ND		1.00	"	Ü							,,	
Methylene chloride		ND		5.00						-			"	
4-Methyl-2-pentanone		ND		10.0	"								"	
Methyl tert-butyl ether	u	ND		1.00	"			·					"	
Naphthalene	"	ND		2.00	"	n	:		**				"	
n-Propylbenzene	эн.	ND		1.00		"							и	
Styrene		ND		1.00	"									
,1,1,2-Tetrachloroethane	u	ND		1.00	"	"							"	
,1,2,2-Tetrachloroethane	άű	ND		1.00	п					-			an .	
Cetrachloroethene	u	ND	***	1.00	"		**	-	-			-	"	
Coluene	og	ND	•••	1.00	"				••				"	
,2,3-Trichlorobenzene	u	ND		1.00	"	"					-		"	
1,2,4-Trichlorobenzene	10	ND		1.00	:11	"		100					"	
1,1,1-Trichloroethane	"	ND		1.00		н				122			"	
1,1,2-Trichloroethane	"	ND		1.00		"								
Trichloroethene		ND		1.00		"			**				"	
Trichlorofluoromethane		ND		1.00	"								"	
,2,3-Trichloropropane	•	ND		1.00	"	**							"	
,2,4-Trimethylbenzene	ms.	ND		1.00	,				-				"	
,3,5-Trimethylbenzene	n	ND		1.00		"							"	
Vinyl chloride	n	ND		0.200	Ü	"								
-Xylene	"	ND		1.00	11	•		**						
n,p-Xylene		ND		2.00	"	**								
Surrogate(s): Dibromofluorometh	nane	Recovery:	94.3%	Limi	ts: 62.9-131%	"							06/20/06 13:5	3
Toluene-d8			109%		58.7-133%	"							110	
4-bromofluorobenzo	ene		114%		60.8-140%	"							"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300

Project Number:

36298182

Report Created:

Spokane, WA 99212

URS Corp.

Project Manager:

Dave Enos

06/28/06 15:34

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

TestAmerica - Spokane, WA

QC Batch	1: 6060225	Water P	reparation	Method: C	C/MS Vola	tiles									
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (6060225	-BS1)								Extr	acted:	06/20/06 13	:23			
Benzene		EPA 8260B	8.22		1.00	ug/l	lx		10.0	82.2%	(70-130)		)	06/20/06 14:49	
Chlorobenzene		n	8.12		1.00	"				81.2%	(68.3-123)		22	**	
1,1-Dichloroethene		n	8.22		1.00	н	"		"	82.2%	(67-137)			"	
Toluene		m.	8.52		1.00	"	"		0	85.2%	(68.8-139)				
Trichloroethene		"	7.94		1.00	"	"		"	79.4%	(68.1-128)			(II)	
Surrogate(s):	Dibromofluoromethane Toluene-d8 4-bromofluorobenzene		Recovery:	99.4% 105% 112%	Limits:	58.7-133% 60.8-140%	"							06/20/06 14:49 "	
Matrix Spike	(6060225-MS1)				QC Source:	SPF0117-01			Extr	acted:	06/20/06 13	:23			
Benzene		EPA 8260B	8.90		1.00	ug/l	lx	ND	10.0	89.0%	(59.7-129)			06/21/06 15:52	
Chlorobenzene		,,,	8.87		1.00	"	н	ND	"	88.7%	(75.8-121)			**	
1,1-Dichloroethene			7.41		1.00	"	"	ND	,,	74.1%	(63.8-137)				
Toluene		**	9.34		1.00	"		0.102		92.4%	(84.5-127)				
richloroethene			8.71		1.00	n	н	ND	н	87.1%	(75.5-129)			Ü	
Surrogate(s):	Dibromofluoromethane		Recovery:	100%	Limits	: 62.9-131%	"							06/21/06 15:52	
	Toluene-d8			104%		58.7-133%	"							"	
	4-bromofluorobenzene			107%		60.8-140%	"							"	
Matrix Spike D	Oup (6060225-MSD	1)			QC Source:	SPF0117-01			Extr	acted:	06/20/06 13	:23			
Benzene		EPA 8260B	9.82		1.00	ug/l	1x	ND	10.0	98.2%	(59.7-129)	9.83%	6 (10)	06/21/06 16:19	
Chlorobenzene		"	9.83		1.00	n	11	ND	n	98.3%	(75.8-121)	10.3%	6 (11)		
1,1-Dichloroethene		"	7.63	***	1.00	***	"	ND		76.3%	(63.8-137)	2.93%	6 (14)	•	
Toluene		•	10.0	***	1.00	"		0.102	"	99.0%	(84.5-127)	6.83%	6 (12)		
Trichloroethene		Эн	9.63		1.00	u		ND	"	96.3%	(75.5-129)	10.0%	(10)	m:	
Surrogate(s):	Dibromofluoromethane		Recovery:	105%	Limits	: 62.9-131%	"							06/21/06 16:19	
	Toluene-d8			103%		58.7-133%	"							"	
	4-bromofluorobenzene			106%		60.8-140%	"							"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300

Project Name:

**Uptown Shopping Center** 

Project Number:

36298182

Report Created:

Project Manager:

Dave Enos

06/28/06 15:34

#### **Notes and Definitions**

### Report Specific Notes:

Spokane, WA 99212

SR-4 - Due to sample matrix effects, the surrogate recovery was outside laboratory 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 - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

Electronic

- 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 - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.







June 23, 2006

Dave Enos URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212

RE: Uptown Shopping Center

Enclosed are the results of analyses for samples received by the laboratory on 06/14/06 10:55. The following list is a summary of the Work Orders contained in this report, generated on 06/23/06 16:51.

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

S.		
Work Order	Project	<u>ProjectNumber</u>
SPF0118	Uptown Shopping Center	36298182

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300

Project Number:

36298182 Dave Enos Report Created:

Spokane, WA 99212

Project Manager:

06/23/06 16:51

#### ANALYTICAL REPORT FOR SAMPLES **Date Sampled Date Received** Laboratory ID Matrix Sample ID SPF0118-06 Soil 06/12/06 11:30 06/14/06 10:55 USCBH1-20' SPF0118-07 Soil 06/14/06 10:55 USCBH2-5' 06/12/06 13:05 SPF0118-12 Soil 06/12/06 15:25 06/14/06 10:55 USCBH3-10'

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/23/06 16:51

### Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0118-06 (USCBH1-20')		Soi	I		Samp	oled: 06/	12/06 11:30			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		11.7	mg/kg dry	lx	6060189	06/15/06 09:49	06/16/06 23:43	
Heavy Oil Range Hydrocarbons		ND		29.1	· u	"	n	m:	"	
Surrogate(s): 2-FBP			81.3%		50	- 150 %	"		n	
p-Terphenyl-d14			83.3%		50	- 150 %	"		"	
SPF0118-07 (USCBH2-5')		Soi	il		Samp	oled: 06/	12/06 13:05			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		12.4	mg/kg dry	1x	6060189	06/15/06 09:49	06/17/06 00:19	
Heavy Oil Range Hydrocarbons	н	ND		31.1					m)	
Surrogate(s): 2-FBP			96.7%		50	- 150 %	"		"	
p-Terphenyl-d14			94.3%		50	- 150 %	"		"	
SPF0118-12 (USCBH3-10')		Soi	iI		Samp	oled: 06/	12/06 15:25			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		13.1	mg/kg dry	1x	6060189	06/15/06 09:49	06/17/06 00:56	
Heavy Oil Range Hydrocarbons		ND		32.7	"	"	"	**	**	
Surrogate(s): 2-FBP			92.9%		50	- 150 %	n		n	
p-Terphenyl-d14			92.2%		50	- 150 %	"		"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/23/06 16:51

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0118-06 (USCBH1-20')		Soil	1		Samp	led: 06/1	2/06 11:30			
Acetone	EPA 8260B	ND		1.17	mg/kg dry	1x	6060203	06/16/06 10:12	06/20/06 10:21	
Benzene		ND		0.0350	u:	311	n:	"		
Bromobenzene		ND		0.117		эн	110	Lu .	п	
Bromochloromethane	"	ND		0.117	<b>11</b> 0		H	"	n	
Bromodichloromethane		ND		0.117	11	111		"	"	
Bromoform		ND		0.117	n	М		"		
Bromomethane		ND		0.583	•		**	"		
2-Butanone		ND		1.17			"	"		
n-Butylbenzene	u	ND		0.117	•	"			"	
sec-Butylbenzene	m .	ND		0.117	er.	"		"	**	
tert-Butylbenzene		ND	*****	0.117	110	"	11.	n.	n	
Carbon disulfide	'n	ND		0.117	**	"			n	
Carbon tetrachloride	u u	ND		0.117		"	"	н.	n.	
Chlorobenzene	· u	ND		0.117			11		"	
Chloroethane	•	ND		0.117	"			"		
Chloroform		ND		0.117		"	n	n ·	n	
Chloromethane	"	ND		0.583	"		311	"	ж	
2-Chlorotoluene		ND		0.117			<u></u>	11	"	
4-Chlorotoluene	"	ND	(allean	0.117	"	ii.	in.	11		
Dibromochloromethane	n	ND		0.117		"	**	""	**	
1,2-Dibromo-3-chloropropane	"	ND		0.583	н	"	in.	u	11.	
1,2-Dibromoethane	n	ND	-	0.117	и	"	n	"	·n	
Dibromomethane	n.	ND		0.117	"	m	"	"	"	
1,2-Dichlorobenzene	n	ND		0.117	"	11.		"	"	
1,3-Dichlorobenzene	w.	ND	-	0.117	u		, u	W.		
1,4-Dichlorobenzene	u	ND		0.117			"	"	·u	
Dichlorodifluoromethane	w	ND		0.117				"		
1,1-Dichloroethane		ND		0.117		115	ч	и.		
1,2-Dichloroethane (EDC)	**	ND		0.117	n		SH .	11.	ч	
1,1-Dichloroethene		ND		0.117	"	и		"	"	
cis-1,2-Dichloroethene	"	ND		0.117	"	"		"	"	
trans-1,2-Dichloroethene	<b>3</b> 5.	ND		0.117		ж	ū	"		
1,2-Dichloropropane	u.	ND		0.117			Tig.	т.	"	
1,3-Dichloropropane	y .	ND		0.117	"	н	u.		.,	
2,2-Dichloropropane	m.	ND		0.117	"		"	"	"	
1,1-Dichloropropene		ND		0.117	u	"	u	"	"	
cis-1,3-Dichloropropene	n	ND		0.117	•		u			
trans-1,3-Dichloropropene	и	ND		0.117	n				"	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/23/06 16:51

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0118-06 (USCBH1-20')		Soil	l		Samp	led: 06/1	2/06 11:30			
Ethylbenzene	EPA 8260B	ND		0.117	mg/kg dry	1x	6060203	06/16/06 10:12	06/20/06 10:21	
Hexachlorobutadiene	*	ND		0.117	"	"	ï.		"	
2-Hexanone	"	ND		1.17	11	"	"			
Isopropylbenzene		ND		0.117	"	"			"	
p-Isopropyltoluene	•	ND		0.117					"	
Methylene chloride	u	ИĎ		1.17		"				
4-Methyl-2-pentanone	"	ND		1.17	n	"		°u.	n	
Methyl tert-butyl ether		ND		0.117	n	"	<u>n</u>	10	"	
Naphthalene	"	ND		0.233	"	n		- <u>u</u>	"	
n-Propylbenzene	n	ND		0.117	"	n			"	
Styrene	38	ND		0.117	"	"			"	
1,1,1,2-Tetrachloroethane		ND		0.117	"	"	n.		"	
1,1,2,2-Tetrachloroethane		ND		0.117	"		"		"	
Tetrachloroethene	THE	ND		0.0350		"	"		"	
Toluene		ND		0.117	п				"	
1,2,3-Trichlorobenzene		ND		0.117		"	"	"	**	
1,2,4-Trichlorobenzene	•	ND		0.117			u			
1,1,1-Trichloroethane	n	ND		0.117	"		"		"	
1,1,2-Trichloroethane	w	ND		0.117	"		"			
Trichloroethene	U	ND		0.0350	"	"	"	<b>n</b> -	"	
Trichlorofluoromethane	0	ND		0.117	"			"		
1,2,3-Trichloropropane	·	ND		0.117					•	
1,2,4-Trimethylbenzene	"	ND		0.117	"	"	"		"	
1,3,5-Trimethylbenzene	"	ND		0.117	"			n	,	
Vinyl chloride	"	ND		0.117		*		n		
o-Xylene	"	ND		0.233	**	"		н.		
m,p-Xylene	•	ND		0.466	н	"	"	n.	v.	
Surrogate(s): Dibromofluorometha	ine		85.4%		44.8 -	- 146 %	"		"	
Toluene-d8			89.4%			- 143 %	"		"	
4-bromofluorobenzer	ne		102%		52.5 -	- 138 %	"		"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created: 06/23/06 16:51

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0118-07 (USCBH2-5')		Soi	l		Samp	led: 06/1	2/06 13:05			
Acetone	EPA 8260B	ND		1.03	mg/kg dry	1x	6060203	06/16/06 10:12	06/20/06 10:49	
Benzene		ND		0.0310	"	n	"	u	0.5	
Bromobenzene	11	ND		0.103		"		"		
Bromochloromethane		ND		0.103	"	"	"			
Bromodichloromethane		ND		0.103	"	"	11		<u></u>	
Bromoform	•	ND		0.103	"	"		ñ.	"	
Bromomethane	•	ND		0.517	"	"	"	11		
2-Butanone	"	ND		1.03	m m				"	
n-Butylbenzene	"	ND		0.103	<u>ii</u>		"	"		
sec-Butylbenzene		ND		0.103	,,		"	11		
tert-Butylbenzene		ND		0.103		9	н	90		
Carbon disulfide		ND		0.103		ij.	,,,	11		
Carbon tetrachloride		ND		0.103	11			<u>m</u>	<u></u>	
Chlorobenzene	W	ND		0.103	n.		u .	n		
Chloroethane		ND		0.103		"	u	•		
Chloroform	n	ND		0.103	"	"	"	•	"	
Chloromethane	n	ND		0.517	"		и	"		
2-Chlorotoluene	n	ND		0.103	"	11				
4-Chlorotoluene	,,	ND		0.103	11	**		n		
Dibromochloromethane	u .	ND		0.103	"	"	"	"		
1,2-Dibromo-3-chloropropane	u	ND		0.517		**				
1,2-Dibromoethane	10	ND		0.103	**	"	"		,,	
Dibromomethane	±Ω	ND		0.103	"	"	11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1,2-Dichlorobenzene		ND		0.103	11	,,		n	"	
1,3-Dichlorobenzene		ND		0.103	•	"		"	"	
1,4-Dichlorobenzene	ü	ND		0.103	"	,,		н	"	
Dichlorodifluoromethane	ü	ND		0.103	"	"	"		"	
1,1-Dichloroethane		ND		0.103	"	"	"		"	
1,2-Dichloroethane (EDC)	•	ND		0.103	п	"	"			
1,1-Dichloroethene	ñ.	ND		0.103	n	,,	"		"	
cis-1,2-Dichloroethene	<b>"</b> .	ND		0.103		"	"		"	
trans-1,2-Dichloroethene		ND		0.103	n	"	"	n	n .	
1,2-Dichloropropane	ñ.	ND		0.103		"	"	п	"	
1,3-Dichloropropane	и.	ND		0.103	n	"	"	n		
2,2-Dichloropropane	H.	ND		0.103	"	"		n	n	
1,1-Dichloropropene	n.	ND		0.103	n	н	"	"	n	
cis-1,3-Dichloropropene	и:	ND		0.103	"	п	"	u u	u	
trans-1,3-Dichloropropene	"	ND		0.103	"				11	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Name:

**Uptown Shopping Center** 

Project Number: 36
Project Manager: D

36298182 Dave Enos Report Created:

06/23/06 16:51

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0118-07 (	USCBH2-5')		Soil			Samp	led: 06/1	2/06 13:05			
Ethylbenzene		EPA 8260B	ND		0.103	mg/kg dry	lx	6060203	06/16/06 10:12	06/20/06 10:49	
Hexachlorobutadien	e	in .	ND		0.103	11	"	"		"	
2-Hexanone		*	ND		1.03	11	"	W.	"	"	
Isopropylbenzene			ND		0.103	"	"	ii .			
p-Isopropyltoluene		"	ND		0.103	"	"	ii.			
Methylene chloride		· w	ND		1.03	"	"	и		"	
4-Methyl-2-pentano	ne	"	ND		1.03	"	"	11	"		
Methyl tert-butyl eth	ner	n	ND		0.103		Ti.	"	"		
Naphthalene		и	ND		0.207	"		n		"	
n-Propylbenzene		н	ND		0.103	"	"	11	,,		
Styrene		· m	ND		0.103	"	•	"	*	THE STATE OF THE S	
1,1,1,2-Tetrachloroe	thane		ND		0.103		"		"	u	
1,1,2,2-Tetrachloroe	thane		ND		0.103	n.					
Tetrachloroethene		ū	ND		0.0310	"		11.			
Toluene		н	ND		0.103	"	**	•	"		
1,2,3-Trichlorobenz	ene	"	ND		0.103	"	**	n	n		
1,2,4-Trichlorobenz	ene	"	ND		0.103	"	"	"	**	· ·	
1,1,1-Trichloroethar	ne		ND		0.103	"	•		ů	Ü	
1,1,2-Trichloroethar	ne	"	ND		0.103	111		"		•	
Trichloroethene		"	ND		0.0310	311		"		Ď.	
Trichlorofluorometh	nane	w.	ND		0.103	н	11		ŭ		
1,2,3-Trichloroprop	ane	W	ND		0.103	n		n	Ü	Ü	
1,2,4-Trimethylbenz	zene		ND		0.103			"		· ·	
1,3,5-Trimethylbenz	zene	,,	ND		0.103		"	**	Ü	<b>u</b>	
Vinyl chloride		*	ND		0.103	эн		*	Ü	n i	
o-Xylene			ND		0.207	"	"	n	ii .	Ü	
m,p-Xylene			ND		0.414	"	"	"	u	и	
Surrogate(s):	Dibromofluoromethane	!		89.1%		44.8	- 146 %	"		"	
	Toluene-d8			91.8%		62.3	- 143 %	u		"	
	4-bromofluorobenzene			105%		52.5	- 138 %	"		"	

TestAmerica - Spokane, WA

1) Well

Dennis D Wells, Laboratory Director



URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/23/06 16:51

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0118-12 (USCBH3-10')		Soi	Soil Sampled: 06/12/06 15:25							
Acetone	EPA 8260B	ND		1.09	mg/kg dry	Ix	6060203	06/16/06 10:12	06/20/06 11:16	
Benzene	W.	ND		0.0326	,,	*			in .	
Bromobenzene		ND		0.109			0	**	'n	
Bromochloromethane	w	ND		0.109	,,					
Bromodichloromethane	n .	ND		0.109	**	**		**	"	
Bromoform	н	ND		0.109	"	"	"		v	
Bromomethane	н	ND		0.543	"	"	"		•	
2-Butanone	m ·	ND		1.09	"	"	"			
n-Butylbenzene	*	ND		0.109	"	"			U	
ec-Butylbenzene		ND		0.109	"	"	U	и	U	
ert-Butylbenzene	n.	ND		0.109	iii	"	"	u	U	
Carbon disulfide	w	ND		0.109	11	"	"	"		
Carbon tetrachloride	"	ND		0.109	"	"	n	и	· u	
Chlorobenzene	n	ND		0.109	"	"	"	ii .	"	
Chloroethane	u.	ND		0.109	"	"	"	"	ii .	
Chloroform	n .	ND		0.109	"				"	
Chloromethane		ND		0.543	n		"	**	"	
2-Chlorotoluene		ND		0.109	"	"			"	
4-Chlorotoluene		ND		0.109	"	"	"		"	
Dibromochloromethane	m .	ND		0.109	n	"	"		"	
1,2-Dibromo-3-chloropropane	m .	ND		0.543		"	"		n	
1,2-Dibromoethane		ND		0.109	"	"	"	•	"	
Dibromomethane		ND		0.109	"	n	n	u		
1,2-Dichlorobenzene	n .	ND		0.109	u	ü	"	•	"	
1,3-Dichlorobenzene	u	ND		0.109	"		n			
1,4-Dichlorobenzene	n	ND		0.109	"	n	n	U	н.	
Dichlorodifluoromethane	n	ND		0.109	"	"	"	v		
,1-Dichloroethane		ND		0.109	"	"	n	Ü	0.	
1,2-Dichloroethane (EDC)		ND		0.109	•	"	"			
1,1-Dichloroethene	n	ND		0.109	m .	ij	n	ï	"	
cis-1,2-Dichloroethene	n	ND		0.109		ī	и	n n	"	
rans-1,2-Dichloroethene	n	ND		0.109	Ü	"	н	"	"	
1,2-Dichloropropane	**	ND		0.109	ñ	ï	н	ü	"	
1,3-Dichloropropane	311	ND		0.109	0		"		"	
2,2-Dichloropropane	:110	ND		0.109		H	н	ï	"	
1,1-Dichloropropene	ж	ND		0.109	0.	ü	w	ŭ	n	
cis-1,3-Dichloropropene	н	ND		0.109	0.	ű		ï	"	
trans-1,3-Dichloropropene	u u	ND		0.109		ü		n	ũ.	

TestAmerica - Spokane, WA

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11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/23/06 16:51

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0118-12 (USC	CBH3-10')	Soil	10 m		Samp	led: 06/1	2/06 15:25			
Ethylbenzene	EPA 8260B	ND		0.109	mg/kg dry	1x	6060203	06/16/06 10:12	06/20/06 11:16	
Hexachlorobutadiene		ND		0.109	"	"	"	in .		
2-Hexanone		ND		1.09	"	"	n	"	"	
Isopropylbenzene	"	ND		0.109	"	"	II.	"	"	
p-Isopropyltoluene		ND		0.109	"		"	"	10	
Methylene chloride		ND		1.09	n	"	"		"	
4-Methyl-2-pentanone	,	ND		1.09	"	"	н	"		
Methyl tert-butyl ether		ND		0.109	H	"	11		"	
Naphthalene	,,	ND		0.217	"	"	н		**	
n-Propylbenzene	"	ND		0.109	"	"	"		•	
Styrene	"	ND		0.109	"	"	"		**	
1,1,1,2-Tetrachloroethan	е "	ND		0.109	"	"	u u			
1,1,2,2-Tetrachloroethan	e "	ND		0.109	ü	"	"	"	"	
Tetrachloroethene	и	ND		0.0326	"	**	"	n	"	
Toluene	m.	ND		0.109	"	"	"	"	"	
1,2,3-Trichlorobenzene	*	ND		0.109	*	"	"			
1,2,4-Trichlorobenzene	n	ND		0.109			11	11.		
1,1,1-Trichloroethane	n	ND		0.109				n	W	
1,1,2-Trichloroethane	n	ND		0.109			"	11	n	
Trichloroethene	и	ND		0.0326	10.5	.11	"			
Trichlorofluoromethane	и	ND		0.109	.00	"	"	•	"	
1,2,3-Trichloropropane	· ·	ND		0.109	**		"		"	
1,2,4-Trimethylbenzene	*	ND		0.109					"	
1,3,5-Trimethylbenzene		ND		0.109	n	"	u		"	
Vinyl chloride		ND		0.109	n:		**		"	
o-Xylene		ND		0.217			w			
m,p-Xylene		ND		0.434			"	n		
Surrogate(s): Dia	bromofluoromethane		90.1%		44.8	- 146 %	"		"	
9 , ,	luene-d8		89.2%		62.3	- 143 %	"		"	
4-1	bromofluorobenzene		102%		52.5	- 138 %	"		"	

TestAmerica - Spokane, WA

Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/23/06 16:51

### Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPF0118-06	(USCBH1-20')		Soil			Sam	pled: 06/1	2/06 11:30			
% Solids		Gravimetry	85.8		0.0100	% by Weight	1x	6060205	06/16/06 12:30	06/16/06 12:32	
SPF0118-07	(USCBH2-5')		Soil		Sampled: 06/12/06 13:05						
% Solids		Gravimetry	80.5		0.0100	% by Weight	1x	6060205	06/16/06 12:30	06/16/06 12:32	
SPF0118-12	(USCBH3-10')		Soil		Sampled: 06/12/06 15:25					,	
% Solids	-	Gravimetry	76.4		0.0100	% by Weight	1x	6060205	06/16/06 12:30	06/16/06 12:32	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300

Project Number:

36298182

Report Created:

Spokane, WA 99212

Project Manager: Dave Enos

06/23/06 16:51

		Semivolatile	Petroleur			'PH-Dx - L - Spokane, W		atory Qu	ality C	ontro	l Result	S			
QC Batch	: 6060189	Soil Prej	paration M	lethod:	EPA 3550B										
Analyte		Method	Result	Ml	DL* MRI	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (606018	9-BLK1)								Extr	acted:	06/15/06 09	:49			
Diesel Range Hydroc	arbons	NWTPH-Dx	ND		10.0	mg/kg wet	1x			-				06/16/06 11:39	
Heavy Oil Range Hyo	drocarbons		ND		25.0	н	"		-					"	
Surrogate(s):	2-FBP p-Terphenyl-d14		Recovery:	88.0% 87.6%	i	Limits: 50-150% 50-150%	"							06/16/06 11:39	
LCS (6060189	-BS1)								Extr	acted:	06/15/06 09	:49			
Diesel Range Hydroc	arbons	NWTPH-Dx	70.0		10.0	mg/kg wet	lx		83.3	84.0%	(50-150)			06/16/06 12:15	
Surrogate(s):	2-FBP p-Terphenyl-d14		Recovery:	90.0% 85.0%	j	Limits: 50-150% 50-150%	"							06/16/06 12:15	
Duplicate (606	(0189-DUP1)				QC Sour	ce: SPF0125-01			Extr	acted:	06/15/06 09	9:49			
Diesel Range Hydroc		NWTPH-Dx	ND		10.7	mg/kg dry	1x	ND				NR	(25)	06/17/06 03:22	
Heavy Oil Range Hy			ND		26.7	n	"	73.6							
Surrogate(s):	2-FBP p-Terphenyl-d14		Recovery:	89.5% 88.5%		Limits: 50-150% 50-150%	"							06/17/06 03:22 "	
Matrix Spike	(6060189-MS1)				QC Sour	ce: SPF0125-01			Extr	acted:	06/15/06 09	9:49			
Diesel Range Hydrod		NWTPH-Dx	98.8		- 10.7	mg/kg dry	lx	7.27	88.9	103%	(70-130)			06/17/06 03:59	
Surrogate(s):	2-FBP p-Terphenyl-d14		Recovery:	118% 106%		Limits: 50-150% 50-150%	"							06/17/06 03:59	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager:

36298182 Dave Enos Report Created:

06/23/06 16:51

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

TestAmerica - Spokane, WA

QC Batch: 6060203	Soil Prep	paration Meth	od: GC/N	MS Vola	tiles									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6060203-BLK1)								Extr	acted:	06/16/06 10	:12			
Acetone	EPA 8260B	ND		1.00	mg/kg wet	1x							06/16/06 13:39	
Benzene	**	ND		0.0300	*								111	
Bromobenzene	**	ND		0.100	n		-						п	
Bromochloromethane		ND		0.100	n								и	
Bromodichloromethane	"	ND		0.100	"								**	
Bromoform	"	ND		0.100	"								"	
Bromomethane	"	ND		0.500	n									
2-Butanone		ND		1.00	"								iii	
n-Butylbenzene	"	ND		0.100									· n	
sec-Butylbenzene	"	ND		0.100	*		-						iii	
tert-Butylbenzene	"	ND		0.100		"							11	
Carbon disulfide	11.	ND		0.100	m:	"							in .	
Carbon tetrachloride	"	ND		0.100	w								п	
Chlorobenzene		ND		0.100	"								"	
Chloroethane	*	ND		0.100	11	ü								
Chloroform	,,	ND		0.100									"	
Chloromethane	**	ND		0.500									"	
2-Chlorotoluene	"	ND		0.100	"								11	
4-Chlorotoluene	,,	ND		0.100	"								11	
Dibromochloromethane	n	ND		0.100		"							н	
1,2-Dibromo-3-chloropropane	"	ND		0.500				22					"	
1,2-Dibromoethane	"	ND		0.100										
Dibromomethane		ND		0.100	.,	"							ii.	
1,2-Dichlorobenzene	"	ND		0.100		.,,							"	
1,3-Dichlorobenzene	n.	ND		0.100									111	
1,4-Dichlorobenzene	"	ND		0.100						1221			"	
Dichlorodifluoromethane		ND		0.100		n				_				
1,1-Dichloroethane	,,	ND		0.100	,,								"	
1,2-Dichloroethane (EDC)	"	ND		0.100				-	-	-			u	
1,1-Dichloroethene	,,	ND		0.100		,,						75	0	
cis-1,2-Dichloroethene	"	ND		0.100	,,						-		u	
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									OH .	
	,,	ND		0.100	,,								n	
1,1-Dichloropropene	"	ND		0.100		п								
cis-1,3-Dichloropropene													,,	
trans-1,3-Dichloropropene		ND		0.100		"							"	
Ethylbenzene		ND		0.100			**		••					

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/23/06 16:51

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

TestAmerica - Spokane, WA

QC Batch: 6060203	Soil Prep	paration Meth	od: GC/	AS Volat	iles									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits	) Analyzed	Notes
Blank (6060203-BLK1)								Extr	acted:	06/16/06 10	:12			
Hexachlorobutadiene	EPA 8260B	ND	•••	0.100	mg/kg wet	1x			-	••			06/16/06 13:39	
2-Hexanone		ND		1.00	"	**						**	"	
Isopropylbenzene		ND		0.100	U	"			**					
p-Isopropyltoluene		ND		0.100									II .	
Methylene chloride	•	ND		1.00		w							10	
4-Methyl-2-pentanone	"	ND		1.00	"								· ·	
Methyl tert-butyl ether	"	ND		0.100	"	"					***		"	
Naphthalene	•	ND		0.200	,,	"							06/16/06 21:57	
n-Propylbenzene	<b>1</b> 177	ND		0.100	0	**							06/16/06 13:39	
Styrene	•	ND		0.100	"	"								
1,1,1,2-Tetrachloroethane	u u	ND		0.100	"	"							"	
1,1,2,2-Tetrachloroethane	110	ND		0.100	**							-	**	
Tetrachloroethene	"	ND		0.0300	**	"							"	
Toluene	u.	ND		0.100	**	"						**	"	
.,2,3-Trichlorobenzene		ND		0.100	"	"								
1,2,4-Trichlorobenzene	"	ND		0.100	"	"								
1,1,1-Trichloroethane	m.	ND		0.100	"	"						-12		
1,1,2-Trichloroethane		ND		0.100	"	"								
Trichloroethene		ND		0.0300	"	"			1.00			***	ü	
Trichlorofluoromethane		ND		0.100	"	"						**	"	
1,2,3-Trichloropropane		ND		0.100	"					-			**	
1,2,4-Trimethylbenzene	"	ND		0.100	"				1.55	-		***	**	
1,3,5-Trimethylbenzene	n.	ND		0.100	"	"							y.	
Vinyl chloride		ND		0.100	"	"							н	
o-Xylene		ND		0.200	"	"							11	
m,p-Xylene	w.	ND		0.400										

TestAmerica - Spokane, WA

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11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Number: Project Manager: 36298182 Dave Enos Report Created:

06/23/06 16:51

### **Notes and Definitions**

### Report Specific Notes:

None

Dil

### 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.

 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 - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

Electronic

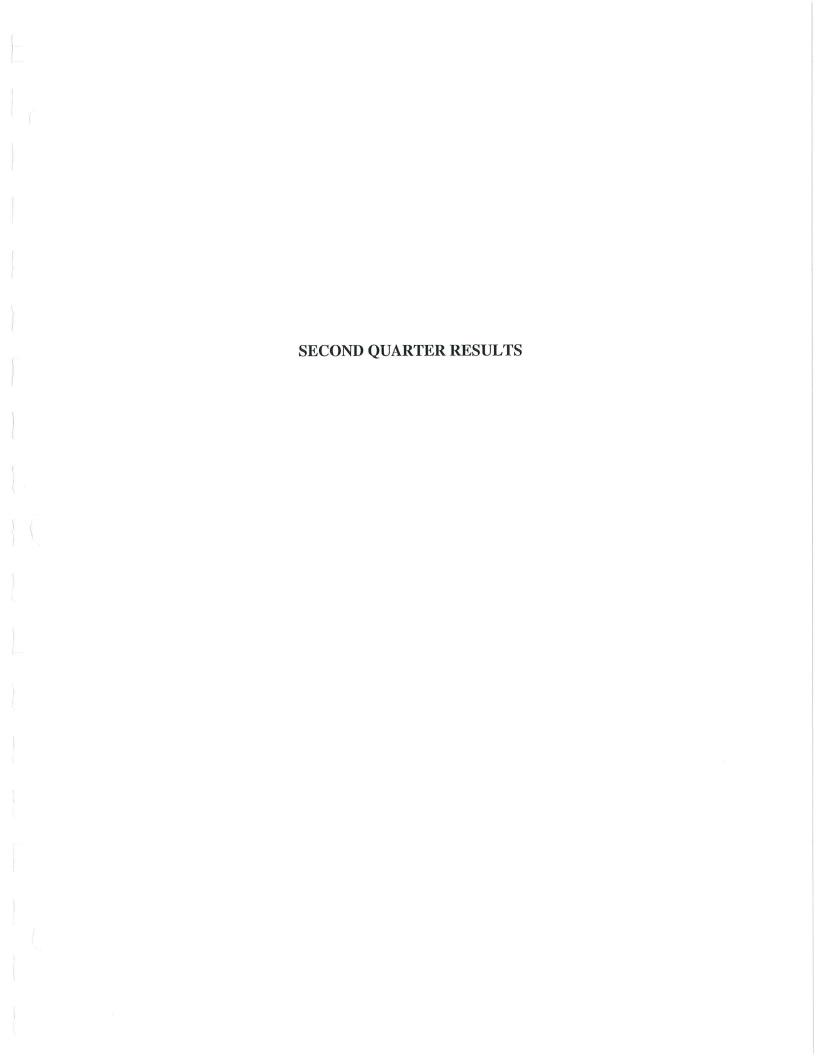
- Electronic Signature added in accordance with TestAmerica's Electronic Reporting and Electronic Signatures Policy.

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 - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





October 17, 2006

Dave Enos URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212

RE: Uptown Shopping Center

Enclosed are the results of analyses for samples received by the laboratory on 09/28/06 08:00. The following list is a summary of the Work Orders contained in this report, generated on 10/17/06 17:00.

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

Work Order	<u>Project</u>	<u>ProjectNumber</u>	
SPI0189	Uptown Shopping Center	36298182	

TestAmerica - Spokane, WA

Randee Decker For Dennis D Wells, Laboratory Director





09/27/06 13:54

09/27/06 14:59

09/27/06 15:50

11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

MW7GW02

MW1GW02

MW2GW02

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300

Project Number:

36298182

Water

Water

Water

Report Created:

Spokane, WA 99212

Project Manager:

er: Dave Enos

10/17/06 17:00

09/28/06 08:00

09/28/06 08:00

09/28/06 08:00

#### ANALYTICAL REPORT FOR SAMPLES Sample ID Laboratory ID Matrix **Date Sampled Date Received** SPI0189-01 Water MW3GW02 09/27/06 10:40 09/28/06 08:00 MW5GW02 SPI0189-02 Water 09/27/06 12:01 09/28/06 08:00 SPI0189-03 Water MW6GW02 09/27/06 13:11 09/28/06 08:00

SPI0189-04

SPI0189-05

SPI0189-06

TestAmerica - Spokane, WA

Randee Decker For Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager:

36298182 Dave Enos

Report Created: 10/17/06 17:00

### Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Note
SPI0189-01 (MW3GW02)		Wa	ter		Sam	pled: 09/	27/06 10:40			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	6100012	10/03/06 13:00	10/04/06 07:05	
Heavy Oil Range Hydrocarbons	9.	ND		0.500	**	w		"	"	
Surrogate(s): 2-FBP			73.0%		50	- 150 %	"		"	
p-Terphenyl-d14			78.9%		50	- 150 %	"		"	
SPI0189-02 (MW5GW02)		Wa	ter		Sam	pled: 09/	27/06 12:01			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	lx	6100012	10/03/06 13:00	10/04/06 07:41	
Heavy Oil Range Hydrocarbons	*	ND		0.500	"	"	"	"	"	
Surrogate(s): 2-FBP			59.3%		50	- 150 %	"		"	
p-Terphenyl-d14			67.7%		50	- 150 %	"		"	
SPI0189-03 (MW6GW02)		Wa	ter		Sam	pled: 09/	27/06 13:11			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	lx	6100012	10/03/06 13:00	10/04/06 08:17	
Heavy Oil Range Hydrocarbons	"	ND		0.500		"	HS.	"	**	
Surrogate(s): 2-FBP			73.5%		50	- 150 %	"		u u	
p-Terphenyl-d14			80.0%		50	- 150 %	"		"	
SPI0189-04 (MW7GW02)		Wa	ter		Sam	pled: 09/	27/06 13:54			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	6100012	10/03/06 13:00	10/04/06 08:52	
Heavy Oil Range Hydrocarbons	"	ND		0.500		"		"	н	
Surrogate(s): 2-FBP			74.5%		50	- 150 %	"		"	
p-Terphenyl-d14			81.9%		50	- 150 %	"		"	
SPI0189-05 (MW1GW02)		Wa	ter		Sam	pled: 09/	27/06 14:59			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	lx	6100012	10/03/06 13:00	10/04/06 09:28	
Heavy Oil Range Hydrocarbons	"	ND		0.500		"	**	"	"	
Surrogate(s): 2-FBP			74.7%		50	- 150 %	"		"	
p-Terphenyl-d14			84.3%		50	- 150 %	"		"	
SPI0189-06 (MW2GW02)		Wa	ter		Sam	pled: 09/	27/06 15:50			
Diesel Range Hydrocarbons	NWTPH-Dx	102		2.50	mg/l	10x	6100012	10/03/06 13:00	10/06/06 11:30	
Heavy Oil Range Hydrocarbons	"	ND		5.00	ш	ж	"	и	N.	
Surrogate(s): 2-FBP			674%		50	- 150 %	"		n	SR-5
p-Terphenyl-d14			141%		50	- 150 %	"		n	

TestAmerica - Spokane, WA

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11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created: 10/17/06 17:00

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-01 (MW3GW02)		Wa	iter		Sam	pled: 09/2	7/06 10:40			
Acetone	EPA 8260B	ND		25.0	ug/l	1x	6100062	10/11/06 07:44	10/11/06 10:00	
Benzene		ND		1.00	"	"	"	**		
Bromobenzene	n	ND		1.00	"	"	"			
Bromochloromethane	н	ND		1.00		"	"	n		
Bromodichloromethane	,,,	ND		1.00			n	"	"	
Bromoform	n	ND		1.00			"		"	
Bromomethane	"	ND		5.00	11			"		
2-Butanone		ND	*****	10.0			"	11	2.	
n-Butylbenzene		ND		1.00	"		"		u.	
sec-Butylbenzene	n	ND		1.00	11		,			
tert-Butylbenzene	"	ND		1.00	"	*	v		"	
Carbon disulfide		ND		1.00	"	11	,	"	"	
Carbon tetrachloride	iii	ND		1.00	**		"		<b>n</b>	
Chlorobenzene	on.	ND		1.00	11	"		"	n	
Chloroethane	iii	ND		1.00	"			"	· ·	
Chloroform	i u	2.06		1.00	"		"	**	n	
Chloromethane	l <del>u</del>	ND		5.00				"	эн	
2-Chlorotoluene	W.	ND		1.00	"			in .	п	
4-Chlorotoluene	*	ND		1.00		"	"	"	***	
Dibromochloromethane	W	ND		1.00			"		"	
1,2-Dibromo-3-chloropropane	"	ND		5.00		"	"	· ·	"	
1,2-Dibromoethane	ii .	ND		1.00		"	11	· n	*	
Dibromomethane	**	ND		1.00		"	п	· n	"	
1,2-Dichlorobenzene	"	ND		1.00	"	"	"	.,	"	
1,3-Dichlorobenzene	"	ND		1.00	"	"	"	"	100	
1,4-Dichlorobenzene	H.	ND		1.00	"	"	"	"	*	
Dichlorodifluoromethane	"	ND		1.00		"		"	"	
1,1-Dichloroethane	w.	ND		1.00		"	"	"	"	
1,2-Dichloroethane (EDC)	"	ND		1.00	"		"	"	"	
1,1-Dichloroethene	"	ND		1.00	"	"	"		"	
cis-1,2-Dichloroethene	н	ND		1.00	"	"		"	"	
trans-1,2-Dichloroethene	"	ND		1.00	"	"	"	"		
1,2-Dichloropropane	u	ND		1.00	n	"	ж		"	
1,3-Dichloropropane	"	ND		1.00		"		"	"	
2,2-Dichloropropane	"	ND		1.00	"	"		"	"	
1,1-Dichloropropene	n	ND		1.00	"	"	"	"	"	
cis-1,3-Dichloropropene	'n	ND	*****	1.00			"		"	
trans-1,3-Dichloropropene	"	ND		1.00	·		"		n	
~										

TestAmerica - Spokane, WA

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URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

10/17/06 17:00

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-01 (MW3GW02)		Wa	iter		Sam	pled: 09/2	7/06 10:40			
Ethylbenzene	EPA 8260B	ND		1.00	ug/l	1x	6100062	10/11/06 07:44	10/11/06 10:00	
Hexachlorobutadiene	u.	ND		1.00				ņ	"	
2-Hexanone		ND		10.0	,				w.	
Isopropylbenzene	w	ND		1.00	9"	2	"		"	
p-Isopropyltoluene		ND		1.00	n.	ñ.			11	
Methylene chloride	"	ND		10.0		ñ.		·	"	
4-Methyl-2-pentanone		ND	*****	10.0		9.5			"	
Methyl tert-butyl ether	n	ND		1.00	9"	9"	"	u		
Naphthalene		ND		2.00	"	201	"	· u		
n-Propylbenzene	2	ND		1.00	n				<u>u</u>	
Styrene	<u>u</u>	ND		1.00		2"	"			
1,1,1,2-Tetrachloroethane	u	ND		1.00	97	ñ	"	u	u	
1,1,2,2-Tetrachloroethane	n .	ND		1.00	n.	9	"	"	11	
Tetrachloroethene	<u>n</u>	ND		1.00			n	"	н	
Toluene	<u>u</u>	ND		1.00		100		w	"	
,2,3-Trichlorobenzene	u.	ND		1.00	n	u	н		11	
1,2,4-Trichlorobenzene	u .	ND		1.00	n	97			и.	
1,1,1-Trichloroethane	u	ND		1.00	n		<b>111</b>		<u>n</u>	
1,1,2-Trichloroethane	U	ND		1.00		0		"	n,	
Trichloroethene	U	ND		1.00	n		п	"	"	
Trichlorofluoromethane	u.	ND		1.00	11	n i	"	,,	"	
1,2,3-Trichloropropane	ü	ND		1.00	"	u u		"	"	
1,2,4-Trimethylbenzene	u u	ND		1.00	11	9	**	"	"	
1,3,5-Trimethylbenzene	u u	ND		1.00		2	n		"	
Vinyl chloride	n .	ND		0.200	n	97	п	"	"	
o-Xylene	2.	ND		1.00	"	9	п	"	"	
m,p-Xylene		ND		2.00	11	u.	"	"	"	
Surrogate(s): Dibromofluoro	methane		89.9%		62.9	- 131 %	"		"	
Toluene-d8			94.4%			- 133 %	· n		"	
4-bromofluoro	benzene		96.7%		60.8	- 140 %	"		"	

TestAmerica - Spokane, WA

Randee Decker For Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

10/17/06 17:00

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-02 (MW5GW02)		Wa	iter		Sam	pled: 09/2	7/06 12:01			
Acetone	EPA 8260B	ND		25.0	ug/l	1x	6100062	10/11/06 07:44	10/11/06 11:31	
Benzene	"	ND		1.00		"		n:	n n	
Bromobenzene	u	ND		1.00		"	n	n:	n n	
Bromochloromethane		ND		1.00	u	"	311	n	"	
Bromodichloromethane	".	ND		1.00	w	"	\ <b>11</b>	10:		
Bromoform	"	ND		1.00	"	"	n	***	•	
Bromomethane	•	ND		5.00	W.	"	**	m:		
2-Butanone	v	ND		10.0	"	"	711	ne	"	
n-Butylbenzene	"	ND		1.00	"	"	**	110	n:	
sec-Butylbenzene	"	ND		1.00	"	"	an .	113	n,	
tert-Butylbenzene	· ·	ND		1.00		"	***		m:	
Carbon disulfide	w.	ND		1.00	"	"	an.	w-	,,,	
Carbon tetrachloride	u	ND		1.00	"	"		ns	,,,	
Chlorobenzene	".	ND		1.00	"	"		ns		
Chloroethane	u.	ND		1.00	n	111	m.	ne	"	
$\mathcal{L}$ hloroform	"	1.41		1.00		"	"	0.1	"	
Chloromethane	"	ND		5.00	Ü	ñ	"			
2-Chlorotoluene		ND		1.00	Ü	ŭ	,	H.	n.	
4-Chlorotoluene		ND		1.00	Ü	ü	"	n.	H:	
Dibromochloromethane		ND		1.00	ü	ű	"	n:	"	
1,2-Dibromo-3-chloropropane	m.	ND		5.00	Ü		"	n.		
1,2-Dibromoethane	•	ND		1.00	ü	ü	"	n.	и.	
Dibromomethane	u.	ND		1.00	Ü	ı.		n.	"	
1,2-Dichlorobenzene	n	ND	*****	1.00	"		"	0.	H:	
1,3-Dichlorobenzene	"	ND		1.00	ü			ñ	11:	
1,4-Dichlorobenzene	"	ND		1.00	Ü			ñ.	10	
Dichlorodifluoromethane	"	ND	*****	1.00	"		"	w.	n.	
1,1-Dichloroethane	n	ND		1.00		in .		n.	n.	
1,2-Dichloroethane (EDC)	n	ND		1.00			n	"	n.	
1,1-Dichloroethene	n	ND		1.00		100	ï	•	"	
cis-1,2-Dichloroethene	n	ND		1.00	u	"	"	0.	11.	
trans-1,2-Dichloroethene		ND		1.00			· ·	ü	u.	
1,2-Dichloropropane		ND		1.00		**	"	n.	n.	
1,3-Dichloropropane	**	ND		1.00			"	"	0.1	
2,2-Dichloropropane	m.	ND		1.00	n	n	"	"		
1,1-Dichloropropene	ñ	ND		1.00	311		**	"		
cis-1,3-Dichloropropene	"	ND		1.00	*		**	"		
trans-1,3-Dichloropropene	"	ND		1.00	**	:11		i a	,,	
St. 100 St. 10										

TestAmerica - Spokane, WA

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URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager:

36298182 Dave Enos Report Created:

10/17/06 17:00

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-02 (I	MW5GW02)		Wa	ter		Samp	oled: 09/2	7/06 12:01			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	6100062	10/11/06 07:44	10/11/06 11:31	
Hexachlorobutadien	e	W.	ND		1.00		n	"		n	
2-Hexanone			ND		10.0		n			•	
Isopropylbenzene		"	ND		1.00	и	**	"		"	
p-Isopropyltoluene			ND		1.00	"	"	n	"	n.	
Methylene chloride			ND		10.0	н	**	"	"	"	
4-Methyl-2-pentano	ne	"	ND		10.0		**	"		"	
Methyl tert-butyl eth	ner	•	ND	*****	1.00	H .	"	n .	"	n	
Naphthalene		•	ND		2.00		**	"	•	n	
n-Propylbenzene		•	ND		1.00	n	"	W.	•		
Styrene			ND	*****	1.00	"	"	"			
1,1,1,2-Tetrachloroe	thane	"	ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroe	thane	,,	ND		1.00	"	"		"	•	
Tetrachloroethene		H:	1.40		1.00	"		**	"	no	
Toluene		n:	ND		1.00	"	"	"	"	u	
1,2,3-Trichlorobenz	ene		ND		1.00	"	"	"	"		
1,2,4-Trichlorobenz	ene		ND		1.00	"	"	"	"	"	
1,1,1-Trichloroethar	ne	n .	ND		1.00	"	"	11		"	
1,1,2-Trichloroethar	ne	w.	ND		1.00	"	"	"		n	
Trichloroethene			ND		1.00	"	"	"		n.	
Trichlorofluorometh	nane	w	ND		1.00	**		11		u	
1,2,3-Trichloroprop	ane		ND		1.00	u	11	"		n	
1,2,4-Trimethylbenz	zene	ri.	ND		1.00	"		"			
1,3,5-Trimethylbenz	zene	и	ND		1.00	"		"	W	n	
Vinyl chloride			ND		0.200	· ·	"			n.	
o-Xylene		n	ND		1.00	"		*			
m,p-Xylene			ND		2.00	"	"			"	
Surrogate(s):	Dibromofluoromethan	е		90.8%		62.9	- 131 %	"		"	
	Toluene-d8			84.4%			- 133 %	"		"	
	4-bromofluorobenzene			104%		60.8	- 140 %	"		"	

TestAmerica - Spokane, WA

Randee Decker For Dennis D Wells, Laboratory Director





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created: 10/17/06 17:00

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-03 (MW6GW02)		Wa	iter		Sam	pled: 09/2	7/06 13:11			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	6100062	10/11/06 07:44	10/11/06 17:02	
Benzene	n i	ND		1.00	u	"	w	HS.	11.	
Bromobenzene	"	ND		1.00		и		<b>y</b> -	и:	
Bromochloromethane	•	ND		1.00		"	"	"	u.	
Bromodichloromethane	w .	ND		1.00		"	"	"	"	
Bromoform	•	ND		1.00		•	"	"	**	
Bromomethane	n	ND		5.00		n	"	"	"	
2-Butanone	m.	ND		10.0		"	"	**	•	
n-Butylbenzene		ND		1.00	"	"	"	u		
sec-Butylbenzene		ND		1.00		"	,,	n		
tert-Butylbenzene		ND		1.00		u	in .	110	n.	
Carbon disulfide		ND		1.00		"	"	n/	n.	
Carbon tetrachloride	n	ND		1.00	"	ii.		n	н	
Chlorobenzene	"	ND		1.00	"	<u>u</u>	"	11	, m	
Chloroethane	"	ND	14444	1.00	n			11		
Chloroform	n.	ND		1.00	"					
Chloromethane		ND		5.00	u.	"				
2-Chlorotoluene	in .	ND		1.00	"	10		"	н	
4-Chlorotoluene	"	ND		1.00	**	**	20		"	
Dibromochloromethane	"	ND		1.00	"			"		
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	78		· ·	
1,2-Dibromoethane	"	ND		1.00	"	**				
Dibromomethane	н	ND		1.00	"	,			"	
1,2-Dichlorobenzene	n .	ND		1.00	"			"		
1,3-Dichlorobenzene	"	ND		1.00	"		•	"	н	
1,4-Dichlorobenzene	"	ND		1.00	"		"	"	"	
Dichlorodifluoromethane	w .	ND		1.00	"		"	"	"	
1,1-Dichloroethane	"	ND		1.00	"	"	"	"		
1,2-Dichloroethane (EDC)	"	ND		1.00	"			"	u	
1,1-Dichloroethene	н	ND		1.00	•		"	"	•	
cis-1,2-Dichloroethene	W.	ND		1.00	•			п	w	
trans-1,2-Dichloroethene	"	ND		1.00		"			ч	
1,2-Dichloropropane	W.	ND		1.00	n	*	u.		и	
1,3-Dichloropropane	· ·	ND		1.00	,		"	п	ш	
2,2-Dichloropropane	Ü	ND	*****	1.00	n		"	"	и	
1,1-Dichloropropene	ü	ND		1.00	ж	"	"			
cis-1,3-Dichloropropene	u	ND	55555	1.00	n	"	"	"	"	
trans-1,3-Dichloropropene	u	ND		1.00		,,	n			

TestAmerica - Spokane, WA

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11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created: 10/17/06 17:00

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-03 (MW	6GW02)	Wa	ter		Sam	pled: 09/2	7/06 13:11			
Ethylbenzene	EPA 8260B	ND		1.00	ug/l	lx	6100062	10/11/06 07:44	10/11/06 17:02	
Hexachlorobutadiene	п	ND		1.00	0.0	"	"	**	**	
2-Hexanone	я	ND		10.0	Ü.	"			"	
Isopropylbenzene	u	ND		1.00	ő:	"			"	
p-Isopropyltoluene	и	ND	*****	1.00	ñ.	·		*	w	
Methylene chloride	п	ND		10.0	n	"	"	11	11	
4-Methyl-2-pentanone		ND		10.0	<b>n</b>	"	*	•	•	
Methyl tert-butyl ether		ND		1.00		"	u.	•	•	
Naphthalene	•	ND		2.00				•		
n-Propylbenzene	"	ND		1.00	п	"	W	•	•	
Styrene		ND		1.00		"	"	•	•	
1,1,1,2-Tetrachloroethan	е "	ND		1.00	н		"	•	•	
1,1,2,2-Tetrachloroethan	е "	ND		1.00	**	"	"	"	•	
Tetrachloroethene	n n	ND		1.00	*		n	**	W	
Toluene	u.	ND		1.00	"		"	n	,,	
1,2,3-Trichlorobenzene	л	ND		1.00	100	ü		,,	w	
1,2,4-Trichlorobenzene	n n	ND		1.00	"	"	**	III	<b>37</b>	
1,1,1-Trichloroethane	п	ND		1.00		"	.11.	n	ж	
1,1,2-Trichloroethane	ш	ND		1.00	n.			n		
Trichloroethene		ND		1.00	110	W.			TE.	
Trichlorofluoromethane	п	ND		1.00		**	"	m.	н	
1,2,3-Trichloropropane	и	ND		1.00		u.	"			
1,2,4-Trimethylbenzene	п	ND		1.00		"	"	**	in .	
1,3,5-Trimethylbenzene	и	ND		1.00		ii.		n	n	
Vinyl chloride	"	ND		0.200		w	"	n	n	
o-Xylene	н	ND		1.00	**				"	
m,p-Xylene	п	ND		2.00		Ü	"		"	
Surrogate(s): Di	bromofluoromethane		92.1%		62.9	- 131 %	"		"	
	luene-d8		90.5%		58.7	- 133 %	"		n	
4-1	promofluorobenzene		98.6%		60.8	- 140 %	n		n	

TestAmerica - Spokane, WA

Randee Decker For Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

10/17/06 17:00

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-04 (MW7GW02)		Wa	iter		Sam	pled: 09/2	27/06 13:54			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	6100062	10/11/06 07:44	10/11/06 17:32	
Benzene		ND		1.00	"				ii.	
Bromobenzene		ND		1.00	"		**		11	
Bromochloromethane	in.	ND		1.00	"	"	21	"		
Bromodichloromethane		ND		1.00	n.		u	"	н.	
Bromoform	"	ND		1.00			"	"	<u>n</u> :	
Bromomethane	**	ND		5.00		"		"		
2-Butanone	"	ND		10.0		"	"	"	"	
n-Butylbenzene	"	ND		1.00	"	"		"	"	
sec-Butylbenzene	"	ND		1.00				"		
tert-Butylbenzene	**	ND		1.00	n	"		u	"	
Carbon disulfide	, u	ND	155555	1.00		v	"	w	"	
Carbon tetrachloride	n	ND		1.00		"	"	"	,"	
Chlorobenzene	w.	ND		1.00	n		"		21	
Chloroethane	· ·	ND		1.00		"		"	"	
Chloroform	**	1.60		1.00	"	"	ü	"		
Chloromethane	,	ND		5.00	н	"	,,	: 11	"	
2-Chlorotoluene	,	ND		1.00	"	**	"		"	
4-Chlorotoluene	"	ND		1.00	"			: 0		
Dibromochloromethane		ND		1.00			n.	**		
1,2-Dibromo-3-chloropropane	100	ND		5.00	"			*	эн	
1,2-Dibromoethane	100	ND		1.00	"	**	"	m×.	"	
Dibromomethane	10	ND		1.00	"		"	"	"	
1,2-Dichlorobenzene		ND		1.00	"	11	20	u ·	"	
1,3-Dichlorobenzene	11.	ND		1.00	"			HE.	"	
1,4-Dichlorobenzene	w.	ND		1.00	"	"	n	118	u	
Dichlorodifluoromethane	m .	ND		1.00	"	n	11			
1,1-Dichloroethane	u	ND		1.00			**		n :	
1,2-Dichloroethane (EDC)		ND		1.00				ж	Ü	
1,1-Dichloroethene	,m	ND		1.00			25	n	100	
cis-1,2-Dichloroethene	"	1.90		1.00	n			н."	110	
trans-1,2-Dichloroethene	n	ND	(2222)	1.00	н	:#	"	n	"	
1,2-Dichloropropane	"	ND		1.00		1,91		,,,		
1,3-Dichloropropane	**	ND		1.00	,,		n	•	n.	
2,2-Dichloropropane	Ti .	ND		1.00	*			n		
1,1-Dichloropropene	ïi.	ND		1.00		"	·n	11	"	
cis-1,3-Dichloropropene	"	ND		1.00			·	n.	"	
cis-1,5 Diemotopropene	122	ND		1.00					"	

TestAmerica - Spokane, WA

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### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-04 (M	IW7GW02)		Wa	ter		Sam	pled: 09/2	7/06 13:54			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	6100062	10/11/06 07:44	10/11/06 17:32	
Hexachlorobutadiene		"	ND		1.00	"	"	u		"	
2-Hexanone			ND		10.0	"	**	ū	"		
Isopropylbenzene		in .	ND		1.00	"	"	"			
p-Isopropyltoluene		in .	ND		1.00	"	"	"			
Methylene chloride			ND		10.0	n	"				
4-Methyl-2-pentanon	e		ND		10.0	"				,,	
Methyl tert-butyl ethe	er	u	ND		1.00	•	"	"			
Naphthalene			ND		2.00	"		"		"	
n-Propylbenzene		"	ND		1.00	"		"	n		
Styrene		•	ND		1.00	"	"	"			
1,1,1,2-Tetrachloroet	hane	•	ND		1.00	"		"	*	"	
1,1,2,2-Tetrachloroet	hane	"	ND		1.00	,,					
Tetrachloroethene		Ü.	21.6		1.00	"		U	"	n	
Toluene			ND		1.00	"	"		"	"	
1,2,3-Trichlorobenze	ne		ND		1.00		"	ñ.		"	
1,2,4-Trichlorobenze	ne		ND	****	1.00	н	"	"		72	
1,1,1-Trichloroethane	e		ND		1.00			"		9	
1,1,2-Trichloroethane	е	•	ND		1.00	ж	"			"	
Trichloroethene			1.74		1.00		u	"	"		
Trichlorofluorometha	ane	"	ND		1.00	"	"	111			
1,2,3-Trichloropropa	ne	"	ND		1.00	"	"	111	"	u.	
1,2,4-Trimethylbenze	ene	"	ND	*****	1.00	"	30		111	0.0	
1,3,5-Trimethylbenze	ene	u.	ND		1.00		31		"	"	
Vinyl chloride		u.	ND		0.200	"	311	116	n.º	110	
o-Xylene		u u	ND		1.00	"		н	- 1		
m,p-Xylene		<u>u</u>	ND		2.00	11	н	HS	H		
Surrogate(s):	Dibromofluoromethan	ie		92.6%		62.9	- 131 %	"		n	
	Toluene-d8			91.4%			7 - 133 %	"		n	
	4-bromofluorobenzene	2		94.0%		60.8	3 - 140 %	"		· n	

TestAmerica - Spokane, WA

Randee Decker For Dennis D Wells, Laboratory Director





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

10/17/06 17:00

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-05 (I	MW1GW02)		Wa	ter		Sam	pled: 09/2	27/06 14:59			
Acetone		EPA 8260B	ND		25.0	ug/l	1x	6100062	10/11/06 07:44	10/11/06 13:02	
Benzene		11	ND		1.00	n.		n	"	"	
Bromobenzene			ND		1.00	"		"	"	"	
Bromochloromethan	ne	314	ND		1.00		n	"	"	•	
Bromodichlorometh	ane	THE STATE OF THE S	ND		1.00	"	"	"		"	
Bromoform		11.	ND	*****	1.00	"	u u	"	"	"	
Bromomethane		ш	ND		5.00	"	"	n	u.	"	
2-Butanone		w	ND		10.0		"	"	"	n	
n-Butylbenzene		III.	ND		1.00	,,		n	"		
sec-Butylbenzene		111	ND		1.00	"	"				
tert-Butylbenzene			ND		1.00	"	"			и.	
Carbon disulfide		:0	ND		1.00	"			n.		
Carbon tetrachloride	e	in.	ND		1.00	"	"	"	ж.		
Chlorobenzene		:00	ND		1.00		**			111	
Chloroethane		in .	ND		1.00		"	"	"	n	
Chloroform		in .	ND		1.00	"			•	"	
Chloromethane		in .	ND		5.00		"			"	
2-Chlorotoluene		· ·	ND		1.00	"		"	•	"	
4-Chlorotoluene		in .	ND		1.00	"			17	**	
Dibromochlorometh	nane	"	ND		1.00		и	W.	**	**	
1,2-Dibromo-3-chlo	propropane		ND		5.00	**	"	"			
1,2-Dibromoethane		n	ND		1.00	**	"			**	
Dibromomethane		"	ND		1.00	"			**	30	
1,2-Dichlorobenzen	e	"	ND		1.00	"	"		"	u	
1,3-Dichlorobenzen	e	n	ND		1.00	"	n		u		
1,4-Dichlorobenzen	e	"	ND		1.00	•	"			•	
Dichlorodifluorome	thane	"	ND		1.00	"	×				
1,1-Dichloroethane		"	ND		1.00	"		"	u		
1,2-Dichloroethane	(EDC)	"	ND		1.00	"	**	"	ü		
1,1-Dichloroethene		m i	ND		1.00	"	"	"	"	w	
cis-1,2-Dichloroeth	ene	"	ND		1.00		11	"	u		
trans-1,2-Dichloroe	thene		ND		1.00		и	"			
1,2-Dichloropropan	e	u.	ND		1.00	n	п	**			
1,3-Dichloropropan	e	•	ND		1.00	"	"	"		,	
2,2-Dichloropropan			ND		1.00	,,	"	"	n		
1,1-Dichloropropen		u	ND	*****	1.00		"	n	n	, ii	
cis-1,3-Dichloropro		•	ND		1.00	n.	**	"	Ü	ň ž	
trans-1,3-Dichlorop			ND		1.00				ű	ii .	

TestAmerica - Spokane, WA

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**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos

Report Created: 10/17/06 17:00

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-05 (MV	W1GW02)	Wa	ter		Sam	pled: 09/2	7/06 14:59			
Ethylbenzene	EPA 8260B	ND		1.00	ug/l	lx	6100062	10/11/06 07:44	10/11/06 13:02	
Hexachlorobutadiene	"	ND		1.00		"		ii	•	
2-Hexanone	n	ND		10.0	n n		"	"	. **	
Isopropylbenzene	"	ND		1.00	n	"	II .	**	0	
p-Isopropyltoluene	"	ND		1.00	"	п	"	"	6	
Methylene chloride	"	ND		10.0	"	n	11	"		
4-Methyl-2-pentanone	n .	ND		10.0		"		•		
Methyl tert-butyl ether	"	ND		1.00		"	11	"	n l	
Naphthalene	"	ND		2.00	"	"	"	"	n i	
n-Propylbenzene	и	ND		1.00	"	"	u u		•	
Styrene	п	ND		1.00	ü	"	"	"	n	
1,1,1,2-Tetrachloroetha	ane "	ND		1.00	"	n	"		n .	
1,1,2,2-Tetrachloroetha	ane "	ND		1.00	n.	"	n		u	
Tetrachloroethene	"	ND		1.00	"		и	"	"	
Toluene	n	ND		1.00	"		m .	**	"	
1,2,3-Trichlorobenzene	"	ND		1.00	"	"	"	"	**	
1,2,4-Trichlorobenzene	"	ND		1.00	"	"	"	**		
1,1,1-Trichloroethane		ND		1.00		"	an.	"	100	
1,1,2-Trichloroethane		ND		1.00		**	**	"	n	
Trichloroethene		ND		1.00	11	"	.11	"	0:	
Trichlorofluoromethan	e "	ND		1.00	101	"	.11	"		
1,2,3-Trichloropropane	. "	ND		1.00	n:	"	n		•	
1,2,4-Trimethylbenzen	е "	ND		1.00	**		"	"		
1,3,5-Trimethylbenzen	е "	ND		1.00	110	"	"	"	"	
Vinyl chloride		ND		0.200	11:	"	"		**	
o-Xylene	"	ND		1.00	**	"	"			
m,p-Xylene	"	ND		2.00	m:	***			n	
Surrogate(s): L	Dibromofluoromethane		92.1%		62.9	- 131 %	"		"	
	Coluene-d8		88.3%			- 133 %	"		"	
4	l-bromofluorobenzene		96.6%		60.8	- 140 %	"		"	

TestAmerica - Spokane, WA

Randee Decker For Dennis D Wells, Laboratory Director





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### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-06 (MW2GW02)		Wa	ater		Sam	pled: 09/2	27/06 15:50			R-05
Acetone	EPA 8260B	ND		250	ug/l	10x	6100062	10/11/06 07:44	10/11/06 13:32	•
Benzene	9.	ND		10.0	en e		111	**	H.	
Bromobenzene		ND		10.0	n		п	**	ñ.	
Bromochloromethane	"	ND	(****	10.0	in .	10.7	111			
Bromodichloromethane	"	ND	****	10.0	in .			m.	n	
Bromoform		ND		10.0		11.5		н	н	
Bromomethane		ND		50.0			.0		n.	
2-Butanone	"	ND		100			"		n.	
n-Butylbenzene	"	ND		10.0	"		"		n	
sec-Butylbenzene		ND		10.0	**		"			
tert-Butylbenzene		ND		10.0	"	"	"	**		
Carbon disulfide		ND		10.0		**:			w	
Carbon tetrachloride	•	ND		10.0	"			n.	n	
Chlorobenzene	,,,	ND		10.0	m:	**			n:	
Chloroethane	,n	ND		10.0		.11		**	m.	
Chloroform		ND		10.0		**		**		
Chloromethane		ND		50.0	и:		и.		100	
2-Chlorotoluene		ND		10.0	"	**	11.5		90	
4-Chlorotoluene		ND		10.0		w	"	"	m.	
Dibromochloromethane	"	ND		10.0			,,,	**	av.	
1,2-Dibromo-3-chloropropane		ND		50.0	"	11	"		310	
1,2-Dibromoethane	.01	ND		10.0		"		**	H(	
Dibromomethane		ND		10.0	"		n.	**	10	
1,2-Dichlorobenzene		ND		10.0	,,	n	n.		316	
1,3-Dichlorobenzene		ND		10.0			"		200	
1,4-Dichlorobenzene	n	ND		10.0		11	"	***	300	
Dichlorodifluoromethane	"	ND		10.0	"	m.		"		
1,1-Dichloroethane		ND		10.0	**		"			
1,2-Dichloroethane (EDC)	m .	ND		10.0	"	w	u			
1,1-Dichloroethene	"	ND		10.0	,,	.11	"	**	315	
cis-1,2-Dichloroethene		ND		10.0		.,	"	**		
trans-1,2-Dichloroethene	"	ND		10.0		"	**	"	or.	
1,2-Dichloropropane	"	ND		10.0	**	"	,,	n,	и	
1,3-Dichloropropane		ND		10.0	*		n	"	и	
2,2-Dichloropropane	"	ND		10.0		"	"		u u	
1,1-Dichloropropene	n	ND		10.0	n		"		<b>'H</b>	
cis-1,3-Dichloropropene	n	ND		10.0			"	,,	n	
trans-1,3-Dichloropropene	"	ND		10.0			,,	"	"	
Mana-1,3-Diemoropropene		110								

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**Uptown Shopping Center** 

Project Number: Project Manager:

36298182 Dave Enos Report Created:

10/17/06 17:00

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPI0189-06 (MW	ZGW02)	V	Vater		Sam	pled: 09/2	7/06 15:50			R-05
Ethylbenzene	EPA 8260B	ND		10.0	ug/l	10x	6100062	10/11/06 07:44	10/11/06 13:32	
Hexachlorobutadiene	m.	ND		10.0	"	"	"	"	"	
2-Hexanone	Ü.	ND		100	"		"	"	"	
Isopropylbenzene	U	ND		10.0	"		"		"	
p-Isopropyltoluene	n	ND		10.0			n		W .	
Methylene chloride	W.	ND		100		"	"		и	
4-Methyl-2-pentanone	"	ND		100			"			
Methyl tert-butyl ether	"	ND		10.0					"	
Naphthalene	ũ.	ND		20.0	n				"	
n-Propylbenzene	ii.	ND		10.0				**	"	
Styrene	n	ND		10.0	n		"	•	"	
1,1,1,2-Tetrachloroethan	ne "	ND		10.0		"	"		n .	
1,1,2,2-Tetrachloroethar	ne "	ND		10.0		"	"		"	
Tetrachloroethene	п	21.7		10.0	n			ñ.	•	
Toluene	n	ND		10.0	"		"		n	
1,2,3-Trichlorobenzene	TI.	ND		10.0			"		711	
1,2,4-Trichlorobenzene	n	ND		10.0	"		"		н	
1,1,1-Trichloroethane		ND		10.0	"	"	"		811	
1,1,2-Trichloroethane	Ti .	ND		10.0		"	"		u.	
Trichloroethene	и	ND		10.0		"	"		· n	
Trichlorofluoromethane	ï	ND		10.0		"	"		· u	
1,2,3-Trichloropropane	iii	ND		10.0		"			n n	
1,2,4-Trimethylbenzen	е "	17.6		10.0	,,	"	"	•	u	
1,3,5-Trimethylbenzene	T .	ND		10.0	n		:11		"	
Vinyl chloride		ND		2.00		u	э	*	Ü	
o-Xylene	I to	ND		10.0			111		."	
m,p-Xylene	u	ND		20.0	· m	"	un.	"		
Surrogate(s): D	ibromofluoromethane		97.6%		62.	9 - 131 %	lx		"	
	oluene-d8		93.8%		58.	7 - 133 %	"		"	
4-	bromofluorobenzene		102%		60.	8 - 140 %	"		n	

TestAmerica - Spokane, WA

Randee Decker For Dennis D Wells, Laboratory Director

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URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager:

36298182 Dave Enos Report Created:

10/17/06 17:00

### Semivolatile Petroleum Products by NWTPH-Dx - Laboratory Quality Control Results

TestAmerica - Spokane, WA

QC Batch: 6100012	Water I	Preparation	Method: I	CPA 3510/6	600 Series									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6100012-BLK1)								Ext	racted:	10/03/06 13	:00			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x							10/04/06 04:42	
Heavy Oil Range Hydrocarbons	(0)	ND		0.500	n	"							"	
Surrogate(s): 2-FBP p-Terphenyl-d14		Recovery:	68.5% 74.6%	Li	mits: 50-150% 50-150%	"							10/04/06 04:42	
LCS (6100012-BS1)								Ext	racted:	10/03/06 13	:00			
Diesel Range Hydrocarbons	NWTPH-Dx	2.24		0.250	mg/l	lx		2.50	89.6%	(50-150)			10/04/06 05:18	
Surrogate(s): 2-FBP p-Terphenyl-d14		Recovery:	87.0% 82.1%	Li	mits: 50-150% 50-150%	"							10/04/06 05:18	
Matrix Spike (6100012-MS1)				QC Source	: SPI0207-01			Ext	racted:	10/03/06 13	:00			
Diesel Range Hydrocarbons	NWTPH-Dx	2.74		0.250	mg/l	lx	1.31	2.63	54.4%	(70-130)			10/04/06 05:54	MS
Surrogate(s): 2-FBP p-Terphenyl-d14		Recovery:	92.4% 77.4%	Li	mits: 50-150% 50-150%	"							10/04/06 05:54	
Matrix Spike Dup (6100012-MS	SD1)			QC Source	: SPI0207-01			Ext	racted:	10/03/06 13	3:00			
Diesel Range Hydrocarbons	NWTPH-Dx	2.75		0.250	mg/l	lx	1.31	2.63	54.8%	(70-130)	0.364%	(50)	10/04/06 06:29	MS
Surrogate(s): 2-FBP p-Terphenyl-d14		Recovery:	95.3% 94.8%	Li	mits: 50-150% 50-150%	"		200					10/04/06 06:29	

TestAmerica - Spokane, WA

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Project Number: Project Manager: 36298182 Dave Enos

Report Created: 10/17/06 17:00

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

TestAmerica - Spokane, WA

QC Batch: 6100062	Water P	reparation M	lethod: GC	C/MS Vol	atiles									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank · (6100062-BLK1)								Extr	acted:	10/11/06 07	7:44			
Acetone	EPA 8260B	ND		25.0	ug/l	lx						1	10/11/06 08:52	
Benzene	.00	ND		1.00		"							"	
Bromobenzene	u	ND		1.00	"	"						(8.5)	.11	
Bromochloromethane	9	ND		1.00	"	"							m .	
Bromodichloromethane	· ·	ND		1.00		n							10	
Bromoform		ND		1.00				1			-		H	
Bromomethane	**	ND		5.00		"								
2-Butanone	u.	ND		10.0		"							añ.	
n-Butylbenzene	"	ND		1.00	n	"							"	
sec-Butylbenzene	**	ND		1.00		"							10	
tert-Butylbenzene	W	ND		1.00		w.							"	
Carbon disulfide	m:	ND		1.00		"							"	
Carbon tetrachloride		ND		1.00	**	"							EM .	
Chlorobenzene	"	ND		1.00	"	n							"	
Chloroethane	и.	ND		1.00		"								
Chloroform		ND		1.00		211							ü	
Chloromethane		ND		5.00		,,							in .	
2-Chlorotoluene		ND		1.00										
4-Chlorotoluene	"	ND		1.00	an:								ii .	
		ND		1.00										
Dibromochloromethane		ND		5.00	n				-	_				
1,2-Dibromo-3-chloropropane		ND		1.00	"	ü							,	
1,2-Dibromoethane				1.00		111	-	-	-	-			,,	
Dibromomethane		ND				,					-		"	
1,2-Dichlorobenzene		ND		1.00									,,	
1,3-Dichlorobenzene	_	ND		1.00										
1,4-Dichlorobenzene		ND	1	1.00										
Dichlorodifluoromethane	,,,	ND		1.00			-							
1,1-Dichloroethane		ND		1.00										
1,2-Dichloroethane (EDC)	"	ND		1.00							-		n: 2.	
1,1-Dichloroethene	**	ND	1555	1.00	"	"								
cis-1,2-Dichloroethene	"	ND		1.00		"								
trans-1,2-Dichloroethene	w.	ND		1.00	"	"							"	
1,2-Dichloropropane	•	ND	555	1.00	"	"			122					
1,3-Dichloropropane		ND		1.00		"	••							
2,2-Dichloropropane	:#	ND		1.00	"	"						••	w	
1,1-Dichloropropene	"	ND	***	1.00	"	"							***	
cis-1,3-Dichloropropene	"	ND		1.00		n							"	
trans-1,3-Dichloropropene		ND	***	1.00	п	**			**	-		22	,,	
Ethylbenzene	•	ND		1.00	"	"								

TestAmerica - Spokane, WA

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URS Corp.

Spokane, WA 99212

920 N. Argonne Road Suite 300

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

10/17/06 17:00

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

TestAmerica - Spokane, WA

QC Batch: 6100062	Water P	reparation N	Method: GC	C/MS Vol	atiles									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6100062-BLK1)								Extr	acted:	10/11/06 07	:44			
Hexachlorobutadiene	EPA 8260B	ND		1.00	ug/l	1x							10/11/06 08:52	
2-Hexanone		ND		10.0	n	11				22			"	
Isopropylbenzene	,,	ND		1.00	"	**							"	
p-Isopropyltoluene	"	ND		1.00	"	"							n	
Methylene chloride		ND		10.0	"	"							"	
4-Methyl-2-pentanone	"	ND		10.0	u	"							"	
Methyl tert-butyl ether	**	ND		1.00	"	"					100		"	
Naphthalene		ND		2.00	10	**		200				-	"	
n-Propylbenzene	"	ND		1.00	"	"							"	
Styrene		ND		1.00	**	"	1						H.	
1,1,1,2-Tetrachloroethane	"	ND		1.00	n								"	
1,1,2,2-Tetrachloroethane	n	ND		1.00	H	"								
Tetrachloroethene	"	ND		1.00	·								н	
Toluene	"	ND	***	1.00	"	"							н	
,2,3-Trichlorobenzene	"	ND		1.00		"						-		
1,2,4-Trichlorobenzene	"	ND		1.00	ii .						-		ii .	
1,1,1-Trichloroethane		ND		1.00		n							"	
1,1,2-Trichloroethane		ND		1.00	30	"	-							
Trichloroethene		ND		1.00		н								
Trichlorofluoromethane		ND		1.00							22		"	
1,2,3-Trichloropropane		ND		1.00					**					
1,2,4-Trimethylbenzene	"	ND		1.00	(h	"							n	
1,3,5-Trimethylbenzene		ND		1.00		"							"	
Vinyl chloride	**	ND		0.200	ü	"			1,000				п	
o-Xylene		ND		1.00		**			-				"	
m,p-Xylene	n	ND		2.00	**	m	1						in:	
Surrogate(s): Dibromofluorometh	ane	Recovery: 8	36.1%	Limit	s: 62.9-131%	"							10/11/06 08:5	?
Toluene-d8			04.2%		58.7-133%	"							"	
4-bromofluorobenze	ene		104%		60.8-140%	"							n:	

TestAmerica - Spokane, WA

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11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Number: Project Manager: 36298182 Dave Enos Report Created: 10/17/06 17:00

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

TestAmerica - Spokane, WA

QC Batcl	h: 6100062	Water P	reparation	Method: (	GC/MS Vola	tiles									
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Note
LCS (6100062	-BS1)					-			Extr	acted:	10/11/06 07	:44		× ***	
Benzene		EPA 8260B	10.4		1.00	ug/l	1x		10.0	104%	(70-130)		1	10/11/06 09:22	
Chlorobenzene		"	10.3		1.00	n	"		"	103%	(68.3-123)			g.	
1,1-Dichloroethene			9.56		1.00	•	**		"	95.6%	(67-137)				
Toluene			9.85		1.00	"	"		"	98.5%	(68.8-139)			"	
Trichloroethene			10.4		1.00	"	"		"	104%	(68.1-128)			n:	
Surrogate(s):	Dibromofluoromethane		Recovery:	101%	Limits:	62.9-131%	"							10/11/06 09:22	
	Toluene-d8			96.7%		58.7-133%	"							"	
	4-bromofluorobenzene			108%		60.8-140%	"							"	
Matrix Spike	(6100062-MS1)				QC Source:	SPI0189-01			Extr	acted:	10/11/06 07	:44			
Benzene	,	EPA 8260B	9.77		1.00	ug/l	1x	ND	10.0	97.7%	(59.7-129)			10/11/06 10:30	
Chlorobenzene		**	9.95		1.00	"	н	ND	"	99.5%	(75.8-121)			п	
1,1-Dichloroethene			9.89		1.00	"	"	ND	"	98.9%	(63.8-137)			п	
Toluene			9.98		1.00	"	"	ND		99.8%	(84.5-127)				
`richloroethene		"	9.96		1.00			ND	ü	99.6%	(75.5-129)				
Surrogate(s):	Dibromofluoromethane		Recovery:	92.5%	Limits	62.9-131%	"							10/11/06 10:30	
	Toluene-d8			93.3%		58.7-133%	"							"	
	4-bromofluorobenzene			100%		60.8-140%	"							"	
Matrix Spike D	Oup (6100062-MSD	01)			QC Source:	SPI0189-01			Exti	acted:	10/11/06 07	7:44			
Benzene		EPA 8260B	9.86		1.00	ug/l	1x	ND	10.0	98.6%	(59.7-129)	0.917	% (10)	10/11/06 11:01	
Chlorobenzene		n	9.99		1.00			ND		99.9%	(75.8-121)	0.401	% (11)		
1,1-Dichloroethene		"	10.1		1.00	w		ND	u	101%	(63.8-137)	2.10%	6 (14)	"	
Toluene		11.	9.80		1.00	u .	**	ND		98.0%	(84.5-127)	1.82%	6 (12)	и	
Trichloroethene		11	10.0		1.00	"	"	ND		100%	(75.5-129)	0.401	% (10)	"	
Surrogate(s):	Dibromofluoromethane		Recovery:	90.8%	Limits	62.9-131%	"	= 9=30						10/11/06 11:01	
2 (/	Toluene-d8			88.5%		58.7-133%	"							"	
	4-bromofluorobenzene			95.0%		60.8-140%	"							"	

TestAmerica - Spokane, WA

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11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Number: Project Manager: 36298182 Dave Enos Report Created:

10/17/06 17:00

### **Notes and Definitions**

#### Report Specific Notes:

MS-2 - The Matrix Spike and/or Matrix Spike Duplicate were below the acceptance limits due to sample matrix interference. See Laboratory Control Sample.

R-05 - Reporting limits raised due to dilution necessary for analysis.

SR-5 - 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.

#### **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 - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

Electronic

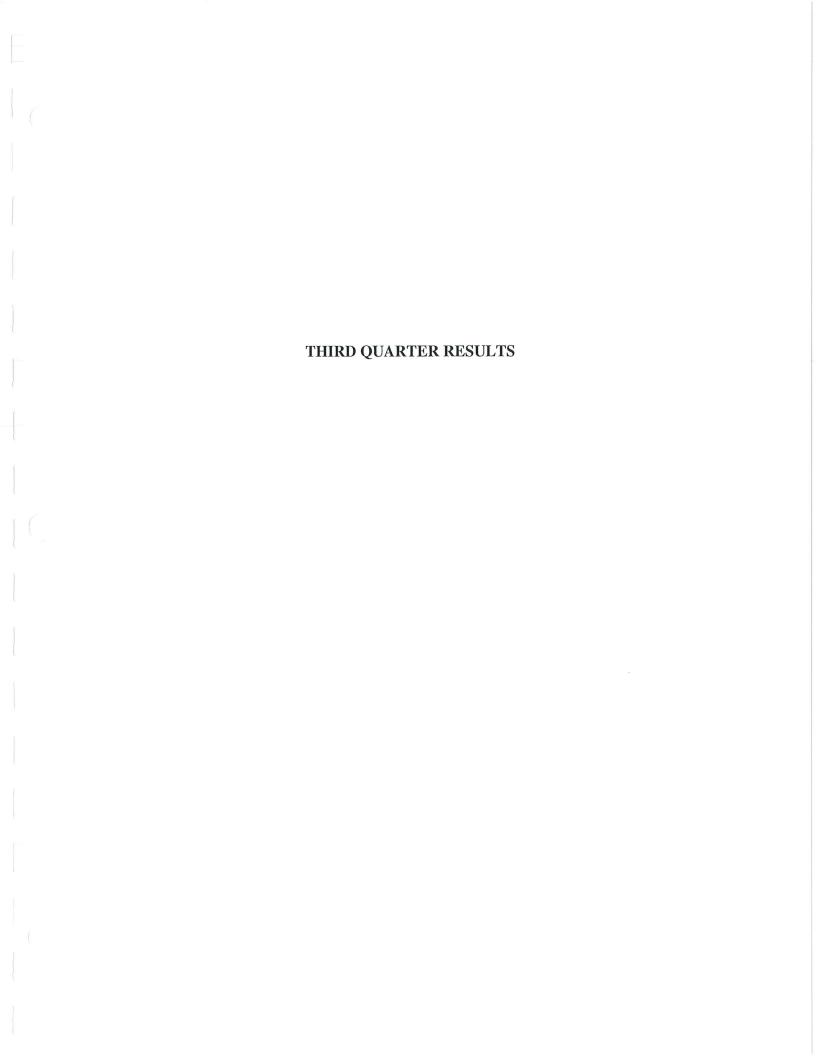
- Electronic Signature added in accordance with TestAmerica's Electronic Reporting and Electronic Signatures Policy.

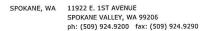
Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Spokane, WA

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January 04, 2007

Dave Enos URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212

RE: Uptown Shopping Center

Enclosed are the results of analyses for samples received by the laboratory on 12/20/06 09:34. The following list is a summary of the Work Orders contained in this report, generated on 01/04/07 15:29.

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

Work Order	<u>Project</u>	<u>ProjectNumber</u>	
SPL0114	Uptown Shopping Center	36298182	

TestAmerica - Spokane, WA

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Randee Decker, Project Manager





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Sample ID

MW3GW03

MW5GW03

MW6GW03

MW7GW03

MW1GW03

MW2GW03

Project Name:

SPL0114-04

SPL0114-05

SPL0114-06

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300

Project Number:

36298182

Water

Water

Water

Report Created: 01/04/07 15:29

12/20/06 09:34

12/20/06 09:34

12/20/06 09:34

Spokane, WA 99212

Project Manager: Dave Enos

ANALYTICAL REPORT FOR SAMPLES Laboratory ID Matrix **Date Sampled Date Received** SPL0114-01 Water 12/19/06 08:31 12/20/06 09:34 SPL0114-02 Water 12/19/06 09:36 12/20/06 09:34 SPL0114-03 Water 12/19/06 10:54 12/20/06 09:34

12/19/06 13:02

12/19/06 14:46

12/19/06 16:16

TestAmerica - Spokane, WA

Randee Decker, Project Manager





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager:

36298182 Dave Enos

Report Created: 01/04/07 15:29

# Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-01 (MW3GW03)		Wa	ter		Sam	pled: 12/1	19/06 08:31			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	6120145	12/26/06 14:21	12/28/06 10:59	
Heavy Oil Range Hydrocarbons	"	ND		0.500	"	"	W.	*		
Surrogate(s): 2-FBP			94.3%		50	- 150 %	n		"	
p-Terphenyl-d14		9	93.8%		50	- 150 %	"		"	
SPL0114-02 (MW5GW03)		Wa	ter		Sam	pled: 12/1	19/06 09:36			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	6120145	12/26/06 14:21	12/28/06 12:41	
Heavy Oil Range Hydrocarbons	"	ND		0.500	n		Ü.	•	**	
Surrogate(s): 2-FBP			96.9%		50	- 150 %	"		"	
p-Terphenyl-d14		,	94.9%		50	- 150 %	"		"	
SPL0114-03 (MW6GW03)		Wa	ter		Sam	pled: 12/1	19/06 10:54			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	6120145	12/26/06 14:21	12/28/06 13:15	
Heavy Oil Range Hydrocarbons		ND		0.500	u	"	н		u.	
Surrogate(s): 2-FBP			86.3%		50	- 150 %	"		"	
p-Terphenyl-d14			84.8%		50	- 150 %	"		"	
SPL0114-04 (MW7GW03)		Wa	ter		Sam	pled: 12/1	19/06 13:02			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	lx	6120145	12/26/06 14:21	12/28/06 13:49	
Heavy Oil Range Hydrocarbons	<b>u</b>	ND		0.500	"	n	"	<u>n</u>	"	
Surrogate(s): 2-FBP			95.3%		50	- 150 %	"		"	
p-Terphenyl-d14			95.8%		50	- 150 %	"		<u>u</u>	
SPL0114-05 (MW1GW03)		Wa	ter		Sam	pled: 12/	19/06 14:46			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	lx	6120145	12/26/06 14:21	12/28/06 14:23	
Heavy Oil Range Hydrocarbons	н	ND		0.500	"	n	"	ii.	"	
Surrogate(s): 2-FBP			101%		50	- 150 %	"		"	
p-Terphenyl-d14			99.5%		50	- 150 %	"		"	
SPL0114-06 (MW2GW03)		Wa	ter		Sam	pled: 12/	19/06 16:16			
Diesel Range Hydrocarbons	NWTPH-Dx	2.94		0.250	mg/l	1x	6120145	12/26/06 14:21	12/28/06 14:58	
Heavy Oil Range Hydrocarbons	"	ND		0.500	"	3H	**	н	"	
Surrogate(s): 2-FBP			112%		50	- 150 %	n		n :	
p-Terphenyl-d14			96.9%				"		"	

TestAmerica - Spokane, WA

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Randee Decker, Project Manager

Cardinates



URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-01 (MW3GW0	3)	Wa	iter		Sam	pled: 12/1	9/06 08:31			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	6120162	12/28/06 10:04	12/28/06 19:11	
Benzene	N.	ND		1.00	"		"	"	"	
Bromobenzene	п	ND		1.00		•	W.	w	"	
Bromochloromethane	ii .	ND		1.00	"	*	"			
Bromodichloromethane	n'	ND		1.00		"	**		u u	
Bromoform	n'	ND		1.00			"			
Bromomethane	"	ND		5.00	"	n	"		"	
2-Butanone		ND		10.0	"	"	"	ju .		
n-Butylbenzene	n .	ND		1.00	u	и	"			
sec-Butylbenzene	"	ND		1.00			n	и	n	
ert-Butylbenzene	H <sub>1</sub>	ND		1.00		н	"	u		
Carbon disulfide	<u>n</u>	ND		1.00				"	"	
Carbon tetrachloride		ND		1.00	"	"	"	111		
Chlorobenzene	"	ND		1.00	"	"		n		
Chloroethane	<u>n</u>	ND		1.00	"	"	"		"	
Chloroform	n	2.13		1.00				"	"	
Chloromethane		ND		5.00	u.	311	"			
2-Chlorotoluene		ND		1.00	"		"	· u	<u>u</u> .	
1-Chlorotoluene	u.	ND		1.00	"	"	"	· e	"	
Dibromochloromethane		ND		1.00	,	"	"		"	
1,2-Dibromo-3-chloropropane	"	ND		5.00	n.	"	"	""	"	
1,2-Dibromoethane	"	ND		1.00	"	"	"			
Dibromomethane		ND		1.00					"	
1,2-Dichlorobenzene		ND		1.00	"	"	"			
1,3-Dichlorobenzene	,,	ND		1.00			•		<u>u</u>	
1,4-Dichlorobenzene		ND		1.00			"		n	
Dichlorodifluoromethane		ND		1.00	9		"			
1,1-Dichloroethane		ND		1.00					"	
1,2-Dichloroethane (EDC)	W	ND		1.00	"		"	"	u.	
1,1-Dichloroethene		ND		1.00					n	
cis-1,2-Dichloroethene	*	ND		1.00			"			
rans-1,2-Dichloroethene		ND		1.00			"	9	u.	
,2-Dichloropropane	*	ND		1.00			"	9		
1,3-Dichloropropane	*	ND		1.00				v	m.	
2,2-Dichloropropane	×	ND		1.00	9			ų		
1,1-Dichloropropene		ND		1.00	9			· u	п.	
cis-1,3-Dichloropropene	*	ND		1.00		v		u	v v	
trans-1,3-Dichloropropene	*	ND		1.00	,		,,			

TestAmerica - Spokane, WA

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Randee Decker, Project Manager





11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Name:

**Uptown Shopping Center** 

Project Number: 36
Project Manager: Da

36298182 Dave Enos Report Created:

01/04/07 15:29

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-01 (	MW3GW03)		Wa	ter		Sam	pled: 12/1	9/06 08:31			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	6120162	12/28/06 10:04	12/28/06 19:11	
Hexachlorobutadien	e	: #	ND		1.00	"	"	"			
2-Hexanone		111	ND		10.0	"	"			"	
Isopropylbenzene		· ·	ND		1.00	"	"	"	"	"	
p-Isopropyltoluene		"	ND		1.00	"	н	"		"	
Methylene chloride		"	ND	*****	10.0	"	"	"	10	"	
4-Methyl-2-pentano	ne	m*i	ND		10.0	"	"	"	"	"	
Methyl tert-butyl eth	ner	•	ND		1.00	"	"				
Naphthalene		***	ND		2.00	"	"	"		"	
n-Propylbenzene		**	ND		1.00	"	"	"	"	"	
Styrene		ns	ND		1.00	u		"	"	11	
1,1,1,2-Tetrachloroe	ethane	HS.	ND		1.00	11	"	n .	"	u u	
1,1,2,2-Tetrachloroe	ethane	u:	ND		1.00	"	"	"	"	"	
Tetrachloroethene		mi .	ND		1.00		"	"		"	
Toluene		m1	ND		1.00	"	"	11		"	
1,2,3-Trichlorobenz	ene	H.	ND		1.00	W	"	u	"	"	
1,2,4-Trichlorobenz	ene		ND		1.00			11		"	
1,1,1-Trichloroethan	ne	n	ND		1.00		n	"	"	"	
1,1,2-Trichloroethan	ne	<u>iii</u>	ND		1.00	"	"	11		"	
Trichloroethene		m .	ND		1.00	"	"	"	•	"	
Trichlorofluorometh	nane	u.	ND		1.00	"	"	"	,	"	
1,2,3-Trichloroprop	ane	n.	ND		1.00		"	W		"	
1,2,4-Trimethylben	zene	n	ND		1.00	ii.		"		"	
1,3,5-Trimethylben:	zene	u u	ND		1.00	"	"	11	"	"	
Vinyl chloride			ND		0.200		"	"	"	"	
o-Xylene		in.	ND		1.00	"		11		"	
m,p-Xylene		"	ND		2.00	"	"	"	"		
Surrogate(s):	Dibromofluorometha	ine		101%		62.9	- 131 %	"		"	
	Toluene-d8			94.7%			- 133 %	n		"	
	4-bromofluorobenzer	пе		91.1%		60.8	- 140 %	"		"	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Randee Decker, Project Manager

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URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-02 (MW5GW03)		Wa	iter		Sam	pled: 12/1	9/06 09:36			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	6120162	12/28/06 10:04	12/28/06 13:06	
Benzene	**	ND		1.00		**	H.	"	W.	
Bromobenzene	ii .	ND		1.00			"			
Bromochloromethane	n .	ND		1.00	"	"	"		m .	
Bromodichloromethane	m .	ND		1.00	"		"	u.		
Bromoform	W.	ND	*****	1.00		u		•	Œ.	
Bromomethane	ii.	ND		5.00					11.	
2-Butanone	ĬĬ.	ND		10.0			"	**	11.	
n-Butylbenzene		ND		1.00	,		"		u.	
sec-Butylbenzene	ũ.	ND		1.00	,,	"	,,	"	"	
tert-Butylbenzene		ND		1.00		"	,,	"	"	
Carbon disulfide		ND		1.00		"	"	,,	"	
Carbon tetrachloride	n .	ND		1.00		*		"	"	
Chlorobenzene	ïi .	ND		1.00	,,	"		и	w	
Chloroethane	**	ND		1.00			m .	"	w	
Chloroform	"	1.57		1.00	"	"	"		11.	
Chloromethane	"	ND		5.00	"			115		
2-Chlorotoluene	w	ND		1.00		,	•	"		
4-Chlorotoluene	и	ND		1.00	"	•	"			
Dibromochloromethane	TE.	ND		1.00			,,	"	"	
1,2-Dibromo-3-chloropropane	11	ND		5.00			"	n	11	
1,2-Dibromoethane		ND		1.00			"	н		
Dibromomethane	п	ND		1.00				n	**	
1,2-Dichlorobenzene	w	ND		1.00			"	п	"	
1,3-Dichlorobenzene	11	ND		1.00	"		"	и	ж	
1,4-Dichlorobenzene	TI .	ND		1.00		"	"	н		
Dichlorodifluoromethane	w	ND		1.00	"		u		39.	
1,1-Dichloroethane	Ti .	ND		1.00			"		,	
1,2-Dichloroethane (EDC)	'n	ND		1.00	"	"	"	"	"	
1,1-Dichloroethene		ND		1.00	"	"		"	"	
cis-1,2-Dichloroethene	n	ND		1.00				"	"	
trans-1,2-Dichloroethene	ΞÎ.	ND		1.00			"	"	**	
1,2-Dichloropropane	Ti .	ND		1.00	"	"	"	"	"	
1,3-Dichloropropane	m .	ND		1.00	"			"	**	
2,2-Dichloropropane	iii	ND		1.00	,,		m	u	w	
1,1-Dichloropropene	"	ND		1.00	**	"	n	n n	"	
cis-1,3-Dichloropropene	"	ND		1.00	,,			"	"	
trans-1,3-Dichloropropene	iii	ND		1.00				"		

TestAmerica - Spokane, WA

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Randee Decker, Project Manager





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-02 (N	MW5GW03)		Wa	ter		Sam	pled: 12/1	9/06 09:36			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	6120162	12/28/06 10:04	12/28/06 13:06	
Hexachlorobutadiene	;	n	ND		1.00	"	"		ш	"	
2-Hexanone			ND		10.0	"	"	"	"	"	
Isopropylbenzene		Ü	ND		1.00	,,	"	**		11	
p-Isopropyltoluene		o.	ND		1.00	н	"	"		n	
Methylene chloride			ND		10.0	**	**		ж	ĬII	
4-Methyl-2-pentanon	ne	"	ND		10.0	**		10			
Methyl tert-butyl eth-	er		ND		1.00	*		H.S.		"	
Naphthalene		w	ND		2.00		w	*	. "	"	
n-Propylbenzene		W.	ND		1.00	"	ii.	"	"	· ·	
Styrene		**	ND		1.00	111	"	"	ü	Ü	
1,1,1,2-Tetrachloroet	thane	и	ND		1.00	"	"			Ü	
1,1,2,2-Tetrachloroet	thane		ND		1.00	n.	"	"	"	n	
Tetrachloroethene		•	7.58		1.00		и	n	"	111	
Toluene			ND		1.00		10	п	"	w	
1,2,3-Trichlorobenze	ene	n	ND		1.00	"	an .	"	"		
1,2,4-Trichlorobenze	ene	"	ND		1.00	"		"	н	"	
1,1,1-Trichloroethan	e		ND		1.00				"	<b>"</b>	
1,1,2-Trichloroethan	e		ND		1.00	"	"		"	•	
Trichloroethene			ND		1.00	n	"		"		
Trichlorofluorometh	ane	in .	ND		1.00	m:	"	"	"	m.	
1,2,3-Trichloropropa	ane	u .	ND		1.00	113		"	"	w	
1,2,4-Trimethylbenz	ene	n	ND		1.00		**		"	10.	
1,3,5-Trimethylbenz	ene	w	ND		1.00		H i	"	u	II.	
Vinyl chloride		w	ND		0.200		110	:11	ü	•	
o-Xylene		\ <b>u</b>	ND		1.00		.110	an .	n	u.	
m,p-Xylene		"	ND	/	2.00	ж		п	"	"	
Surrogate(s):	Dibromofluoromethane			97.7%		62.9	9 - 131 %	"		"	
2 (/	Toluene-d8			89.4%			7 - 133 %	n		"	
	4-bromofluorobenzene			97.8%		60.8	8 - 140 %	"		"	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain  $of\ custody\ document.\ This\ analytical\ report\ must\ be\ reproduced\ in\ its\ entirety.$ 

Randee Decker, Project Manager

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URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-03 (MW6GW03)		Wa	iter		Sam	pled: 12/1	9/06 10:54			
Acetone	EPA 8260B	ND		25.0	ug/l	1x	6120162	12/28/06 10:04	12/28/06 14:30	
Benzene	"	ND		1.00	"	"	n	"		
Bromobenzene	"	ND	-	1.00	"		"	n	W	
Bromochloromethane	"	ND		1.00	"	"	•	и.		
Bromodichloromethane		ND		1.00	*	"	"	u	•	
Bromoform		ND		1.00		ű	n	"	n	
Bromomethane		ND		5.00	ï.	"	"	"		
2-Butanone		ND		10.0	*	Ď	u	"		
n-Butylbenzene		ND		1.00	n.		"	"	"	
sec-Butylbenzene	in .	ND		1.00	"			"	•	
tert-Butylbenzene	m .	ND		1.00		n	"	"		
Carbon disulfide		ND		1.00	in.			11	*	
Carbon tetrachloride		ND		1.00	n	"	10	11		
Chlorobenzene	"	ND		1.00	'n			"	"	
Chloroethane	u	ND		1.00	m	"	ŭ	"		
Chloroform	n	1.68		1.00	**	***	"			
Chloromethane		ND		5.00		"	"	"		
2-Chlorotoluene		ND		1.00	n	"	"	W.	**	
4-Chlorotoluene		ND		1.00	"	**	"	"	"	
Dibromochloromethane		ND		1.00	"	"	"	n	w	
1,2-Dibromo-3-chloropropane		ND		5.00	"	п	"	TI TI	"	
1,2-Dibromoethane	u:	ND		1.00			"		"	
Dibromomethane	<b>1</b> 0.	ND		1.00	"	"	11	TI .	11	
1,2-Dichlorobenzene		ND		1.00	11	"	"		"	
1,3-Dichlorobenzene	•	ND		1.00	"	"	"		"	
1,4-Dichlorobenzene		ND		1.00	"	"	"	"	· ·	
Dichlorodifluoromethane	"	ND		1.00	"	"	"	"	· ·	
1,1-Dichloroethane		ND		1.00	"	n	"	"		
1,2-Dichloroethane (EDC)		ND		1.00		"	"	"	°n	
1,1-Dichloroethene	u.	ND		1.00	"	"	"	"	"	
cis-1,2-Dichloroethene	w	ND		1.00	"	"	n		"	
trans-1,2-Dichloroethene	"	ND		1.00	*	"	"			
1,2-Dichloropropane	u.	ND		1.00	*	"	"			
1,3-Dichloropropane		ND		1.00	ii .	"	n	•	"	
2,2-Dichloropropane		ND		1.00	"	**			"	
1,1-Dichloropropene		ND		1.00			"	"	"	
cis-1,3-Dichloropropene		ND		1.00		"	"	v	"	
trans-1,3-Dichloropropene	"	ND		1.00	***	ü	"	n	"	
• • • •										

TestAmerica - Spokane, WA

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tardubles Randee Decker, Project Manager





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-03 (MW6GW03)		Wa	ter		Sam	pled: 12/1	9/06 10:54			
Ethylbenzene	EPA 8260B	ND		1.00	ug/l	1x	6120162	12/28/06 10:04	12/28/06 14:30	
Hexachlorobutadiene	m	ND		1.00	"	"	"	ũ	· ·	
2-Hexanone	"	ND		10.0			"	ï.	n	
Isopropylbenzene	n.	ND		1.00	"	"	"	•	'n	
p-Isopropyltoluene		ND		1.00	н		**		"	
Methylene chloride	**	ND		10.0	an .	.11	"	**	u	
4-Methyl-2-pentanone		ND		10.0	: 11	.11		"	u	
Methyl tert-butyl ether	и	ND		1.00		311.	,,,	"	"	
Naphthalene	"	ND		2.00					"	
n-Propylbenzene	н	ND		1.00	±11			*	•	
Styrene	n	ND		1.00	2.00	"	"	"	u u	
1,1,1,2-Tetrachloroethane	u u	ND		1.00		и	"	*		
1,1,2,2-Tetrachloroethane	"	ND		1.00		"	"	n		
Tetrachloroethene	in .	4.14		1.00	и .		"	"		
Toluene	"	ND		1.00	"	"	"	11		
,2,3-Trichlorobenzene	"	ND		1.00	"	"	"		"	
1,2,4-Trichlorobenzene	"	ND		1.00	"	"	ш		"	
1,1,1-Trichloroethane	п	ND		1.00	"	"	"	"	,	
1,1,2-Trichloroethane		ND		1.00	W.	"	"		"	
Trichloroethene	"	ND		1.00	"	"	"	"	"	
Trichlorofluoromethane		ND		1.00	"	n.	"	"		
1,2,3-Trichloropropane	n	ND		1.00	"	"	"	•	"	
1,2,4-Trimethylbenzene		ND		1.00	"	"	"	W		
1,3,5-Trimethylbenzene		ND		1.00	"	"	"	300.	**	
Vinyl chloride		ND		0.200	**		"		n	
o-Xylene	· e	ND		1.00	"	"	"	"		
m,p-Xylene		ND		2.00	n	"	"	"		
Surrogate(s): Dibromofluor	omethane		97.5%		62.9	9 - 131 %	"		"	
Toluene-d8			95.1%			7 - 133 %	"		"	
4-bromofluor	obenzene		93.6%		60.8	8 - 140 %	"		"	

TestAmerica - Spokane, WA

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Randee Decker, Project Manager

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URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-04 (MW7GW03)		Wa	ter		Samı	pled: 12/1	9/06 13:02			
Acetone	EPA 8260B	ND		25.0	ug/l	1x	6120162	12/28/06 10:04	12/28/06 14:58	
Benzene	ii :	ND		1.00	"		"	u u		
Bromobenzene	<del>u</del> i	ND		1.00	"			"		
Bromochloromethane	•	ND		1.00						
Bromodichloromethane	m !	ND		1.00	"	m	"			
Bromoform	m.	ND		1.00	•	"	u		"	
Bromomethane	ŭ.	ND		5.00	"	n	**			
2-Butanone		ND		10.0	*		"	,		
n-Butylbenzene	п	ND		1.00	"	**			"	
sec-Butylbenzene	н	ND		1.00	· ·	"		9		
tert-Butylbenzene	,,	ND		1.00		w				
Carbon disulfide	n.	ND		1.00	"			"	W.	
Carbon tetrachloride		ND		1.00	"		п	"	и.	
Chlorobenzene	"	ND		1.00	"			n	u .	
Chloroethane	"	ND		1.00		"	"	n	"	
Chloroform		2.22		1.00		"	"	,	m (	
Chloromethane	"	ND		5.00	•	u		"	"	
2-Chlorotoluene	"	ND		1.00	n,	"			2.	
4-Chlorotoluene	n	ND		1.00		"		"	,,	
Dibromochloromethane	n	ND		1.00		"			,,	
1,2-Dibromo-3-chloropropane		ND		5.00	*	"	w		,	
1,2-Dibromoethane	•	ND		1.00	11	"	и		*	
Dibromomethane		ND		1.00			н	u	"	
1,2-Dichlorobenzene	· ·	ND		1.00				u	"	
1,3-Dichlorobenzene	п	ND		1.00			30		"	
1,4-Dichlorobenzene	"	ND		1.00				"	,,	
Dichlorodifluoromethane	"	ND		1.00		u.	111			
1,1-Dichloroethane	"	ND		1.00		u	28	u	и	
1,2-Dichloroethane (EDC)	п	ND		1.00	н	н	THE STATE OF THE S	TI .	n	
1,1-Dichloroethene	n .	ND	*****	1.00	n		18	n		
cis-1,2-Dichloroethene		2.65		1.00				.10	"	
trans-1,2-Dichloroethene	**	ND		1.00	mz.		: 0	ж	n.	
1,2-Dichloropropane	n	ND		1.00		112	10	311		
1,3-Dichloropropane	TI .	ND		1.00						
2,2-Dichloropropane	п	ND		1.00					on:	
1,1-Dichloropropene	n	ND		1.00	**		"		п	
cis-1,3-Dichloropropene		ND		1.00			"		THE STATE OF THE S	
trans-1,3-Dichloropropene	v	ND		1.00	н		"		THE STATE OF THE S	
1,5 District Optopolic		16.15								

TestAmerica - Spokane, WA

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about Randee Decker, Project Manager





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-04 (N	MW7GW03)		Wa	ter		Sam	pled: 12/1	9/06 13:02			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	6120162	12/28/06 10:04	12/28/06 14:58	
Hexachlorobutadiene	:	н	ND		1.00	an.		n	11	<u>n</u>	
2-Hexanone		*	ND		10.0	***		.11	.0	ñ :	
Isopropylbenzene		W.	ND	*****	1.00	n	· H			ii i	
p-Isopropyltoluene			ND		1.00	n		**		"	
Methylene chloride		"	ND		10.0			"	**	wi	
4-Methyl-2-pentanon	ne	и	ND		10.0		"	"	"	"	
Methyl tert-butyl ethe	er		ND		1.00	"	"	"	•	"	
Naphthalene		"	ND		2.00	"		U	•	,,	
n-Propylbenzene		"	ND		1.00	"		"		n	
Styrene		n	ND		1.00		"	Ĭn.	n	u u	
1,1,1,2-Tetrachloroet	thane	ж	ND		1.00	10	"	18	11.	w	
1,1,2,2-Tetrachloroet	thane		ND		1.00	"	"	ä	•		
Tetrachloroethene		"	24.3		1.00	"			,,	n:	
Toluene			ND		1.00	"	"	"	•	n	
,2,3-Trichlorobenze	ene	n	ND		1.00	11			"		
1,2,4-Trichlorobenze	ene	n	ND		1.00		n.				
1,1,1-Trichloroethan	e		ND		1.00	"	п				
1,1,2-Trichloroethan	e	m .	ND		1.00	"					
Trichloroethene			2.01		1.00		H:		"	w.	
Trichlorofluorometha	ane	ii .	ND		1.00			"	"	"	
1,2,3-Trichloropropa	ine	:11	ND	,	1.00	"	"	"	"		
1,2,4-Trimethylbenze	ene		ND		1.00		"	"		"	
1,3,5-Trimethylbenze	ene	111.	ND		1.00	"	"	"			
Vinyl chloride		W	ND		0.200	"		,		"	
o-Xylene		ii .	ND		1.00	*	"	"		"	
m,p-Xylene		"	ND		2.00	n			"	"	
Surrogate(s):	Dibromofluoromethane			96.8%		62.9	- 131 %	"		"	
	Toluene-d8			95.2%			- 133 %	"		"	
	4-bromofluorobenzene			92.2%		60.8	3 - 140 %	"		"	

TestAmerica - Spokane, WA

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Randee Decker, Project Manager

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URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager:

36298182 Dave Enos Report Created:

01/04/07 15:29

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-05 (MW1GW03)		Wa	ter		Sam	pled: 12/1	9/06 14:46			
Acetone	EPA 8260B	ND		25.0	ug/l	1x	6120162	12/28/06 10:04	12/28/06 15:26	
Benzene	<b>10</b>	ND		1.00	•	"	,,	"	m.	
Bromobenzene	n .	ND		1.00	u			"	,,	
Bromochloromethane	v	ND		1.00	"	"		"	"	
Bromodichloromethane		ND		1.00				"	"	
Bromoform		ND		1.00			"	"		
Bromomethane	w.	ND		5.00	"	"		"	u.	
2-Butanone		ND		10.0	"	n	"		"	
n-Butylbenzene		ND		1.00	"	"	"	"	"	
sec-Butylbenzene		ND		1.00	"		"	"	w <sub>g</sub>	
tert-Butylbenzene		ND		1.00		"	"	"	111	
Carbon disulfide		ND		1.00			"		9	
Carbon tetrachloride		ND		1.00		"	"	"	u <sub>j</sub>	
Chlorobenzene		ND		1.00				9	22	
Chloroethane		ND		1.00	"			n		
Chloroform		ND		1.00		"		9	n	
Chloromethane	W.	ND		5.00	"			"	<u>u</u>	
2-Chlorotoluene	in.	ND		1.00		"	"	"	n	
4-Chlorotoluene	n	ND		1.00		"		"		
Dibromochloromethane	m.	ND		1.00			"	11		
1,2-Dibromo-3-chloropropane		ND		5.00	"	"	"	"	u.	
1,2-Dibromoethane	u	ND		1.00			"	u.	n	
Dibromomethane	n	ND		1.00	w	"	"	".		
1,2-Dichlorobenzene	и	ND		1.00	n	"		"		
1,3-Dichlorobenzene	и	ND		1.00	"	"	"	н	,	
1,4-Dichlorobenzene	"	ND		1.00	"	"	**	"	n	
Dichlorodifluoromethane	Ü	ND		1.00		"	"	"	n n	
1,1-Dichloroethane	w	ND		1.00		*	n	"	и	
1,2-Dichloroethane (EDC)	Ti I	ND		1.00		"		u.	u	
1,1-Dichloroethene	w	ND		1.00	н.		"	"	n	
cis-1,2-Dichloroethene	Ü	ND		1.00					u	
trans-1,2-Dichloroethene	u	ND		1.00	"	"		н	"	
1,2-Dichloropropane	ü	ND		1.00		"	"	н	"	
1,3-Dichloropropane	ü	ND	-	1.00	"	"		"	u	
2,2-Dichloropropane	ü	ND		1.00	"	"		"	u	
1,1-Dichloropropene	ï	ND		1.00	п	**		"		
cis-1,3-Dichloropropene	"	ND		1.00	"	п		u		
trans-1,3-Dichloropropene	"	ND		1.00	"		"	"	**	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Carde Wes Randee Decker, Project Manager





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-05 (M	W1GW03)		Wat	ter		Samp	pled: 12/1	9/06 14:46			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	6120162	12/28/06 10:04	12/28/06 15:26	
Hexachlorobutadiene		"	ND		1.00	n.		**	"	"	
2-Hexanone		n.	ND		10.0				"	"	
Isopropylbenzene			ND		1.00	"	"	"		"	
p-Isopropyltoluene		ж	ND		1.00	"	"	"	m i	u	
Methylene chloride		•	ND		10.0	,,	n		***	"	
4-Methyl-2-pentanone		ж	ND		10.0	"	"	·	11	"	
Methyl tert-butyl ether		u .	ND		1.00	"	"	· m	"	"	
Naphthalene			ND		2.00	*9	**			"	
n-Propylbenzene			ND		1.00		"	и	11	"	
Styrene			ND		1.00		"	и	**	,,	
1,1,1,2-Tetrachloroetha	ane	n	ND		1.00	"	"	"	117	"	
1,1,2,2-Tetrachloroetha	ane	n	ND		1.00			"	••	"	
Tetrachloroethene			ND		1.00	"	11	·	***		
Toluene			ND		1.00	n	"	"	710	м	
1,2,3-Trichlorobenzene	e		ND		1.00	n	"	"		.11.	
1,2,4-Trichlorobenzene	e	•	ND		1.00	п				"	
1,1,1-Trichloroethane		•	ND		1.00	н	n	ii.		"	
1,1,2-Trichloroethane			ND		1.00	**		ñ.			
Trichloroethene		"	ND		1.00	н	36	<b>W</b> .	"	,,	
Trichlorofluoromethan	ie	"	ND		1.00	11	·	10	"	91	
1,2,3-Trichloropropane	е	"	ND		1.00	"			"	и	
1,2,4-Trimethylbenzen	ie	•	ND		1.00	"	"	"	"	0	
1,3,5-Trimethylbenzen	ie	•	ND		1.00				'n	TI T	
Vinyl chloride		"	ND		0.200	"	"		п		
o-Xylene		"	ND		1.00	"	**	"	**	п	
m,p-Xylene		II .	ND		2.00		"	"	"	эн.	
Surrogate(s): L	Dibromofluoromethane			99.0%		62.9	- 131 %	"		"	
	Toluene-d8			94.5%			- 133 %	"		"	
4	1-bromofluorobenzene			90.6%		60.8	- 140 %	"		"	

TestAmerica - Spokane, WA

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Cardwales Randee Decker, Project Manager





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-06 (MW2GW03)		Wa	ter		Samı	pled: 12/1	9/06 16:16			
Acetone	EPA 8260B	ND		25.0	ug/l	1x	6120162	12/28/06 10:04	12/28/06 15:54	
Benzene	"	ND		1.00		"	"	"	"	
Bromobenzene		ND		1.00	"	"		-11		
Bromochloromethane		ND		1.00	"	"	"	"		
Bromodichloromethane	m.	ND		1.00	"	"	"	"		
Bromoform	*	ND		1.00	"	"	**	"	:n	
Bromomethane	w.	ND		5.00	u		,"	"		
2-Butanone	in.	ND		10.0	"	"		n	"	
n-Butylbenzene		ND		1.00	"	"	"	"	n	
sec-Butylbenzene	u	ND		1.00	"	"	**	"		
tert-Butylbenzene		ND		1.00	"	"	*	"		
Carbon disulfide	w	ND		1.00	"	"		"	n	
Carbon tetrachloride	"	ND		1.00	"	H,	н	и:	an .	
Chlorobenzene	ж	ND	****	1.00		"	н	**	·n	
Chloroethane	w	ND		1.00	n	"			·n	
Chloroform	ii .	1.92		1.00	"	"	"	u	"	
Chloromethane		ND		5.00	"	. "	"	W	"	
2-Chlorotoluene	**	ND		1.00			"	n	"	
4-Chlorotoluene	u	ND		1.00	н	115		"	"	
Dibromochloromethane		ND		1.00	"	"	n		"	
1,2-Dibromo-3-chloropropane		ND		5.00	"	ж	20	36	"	
1,2-Dibromoethane		ND		1.00	11	ш		n	"	
Dibromomethane	n	ND		1.00	711	и	"	n	Ü	
1,2-Dichlorobenzene		ND		1.00	"		"	н		
1,3-Dichlorobenzene	,	ND		1.00	я		"		"	
1,4-Dichlorobenzene		ND		1.00	н	н		n	**	
Dichlorodifluoromethane	"	ND		1.00		"	•	"	"	
1,1-Dichloroethane		ND		1.00	"	"	"	n	n	
1,2-Dichloroethane (EDC)	W)	ND		1.00	я	"		п	u	
1,1-Dichloroethene	"	ND		1.00	"	"	"	"	u	
cis-1,2-Dichloroethene		ND		1.00	"	n	"	"	w	
trans-1,2-Dichloroethene	•	ND		1.00		"	н.	"	u	
1,2-Dichloropropane	<b>11</b> )	ND		1.00	·	"	H <sub>1</sub>	11	•	
1,3-Dichloropropane	,,	ND		1.00	"		w		u	
2,2-Dichloropropane	,	ND		1.00			и.		и	
1,1-Dichloropropene		ND		1.00	"			311	m.	
cis-1,3-Dichloropropene	u.	ND		1.00	"	30	и	л		
trans-1,3-Dichloropropene	"	ND		1.00	"	*		и		
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TestAmerica - Spokane, WA

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Randee Decker, Project Manager

Cardwales





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SPL0114-06 (	MW2GW03)		Wa	ter		Sam	pled: 12/1	9/06 16:16			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	6120162	12/28/06 10:04	12/28/06 15:54	
Hexachlorobutadien	e	"	ND		1.00	**	"		"	w.	
2-Hexanone		"	ND		10.0	"	"	"	"	"	
Isopropylbenzene		**	ND		1.00	11	11	"	•	"	
p-Isopropyltoluene			ND		1.00		"	"	•	"	
Methylene chloride		"	ND		10.0	n	"	"	n	"	
4-Methyl-2-pentano	ne		ND		10.0			"	н	u i	
Methyl tert-butyl eth	ner	**	ND		1.00		"	**	*	W)	
Naphthalene		"	ND		2.00			"	"	"	
n-Propylbenzene		,,	ND		1.00		"	"	11	"	
Styrene		**	ND		1.00	"	H	"			
1,1,1,2-Tetrachloroe	ethane	"	ND		1.00	**	11		и	"	
1,1,2,2-Tetrachloroe	ethane		ND		1.00	"	"	"		11)	
Tetrachloroethene			48.8		1.00	"		"	n	•	
Toluene		,n	ND		1.00		u	"	u		
1,2,3-Trichlorobenz	ene	п	ND		1.00	"		"		"	
1,2,4-Trichlorobenz	ene	"	ND		1.00	"	"	"	,,,	**	
1,1,1-Trichloroethar	ne		ND		1.00				"		
1,1,2-Trichloroethan	ne	п	ND		1.00		"	"		н	
Trichloroethene		11	ND		1.00		,,	"			
Trichlorofluorometh	nane	'n	ND		1.00	"	"	n n		n	
1,2,3-Trichloroprop	ane		ND		1.00		"				
1,2,4-Trimethylbenz	zene	in .	ND		1.00	"	"				
1,3,5-Trimethylbenz	zene		ND		1.00	"				"	
Vinyl chloride			0.264		0.200	"	"	"		n	
o-Xylene		"	ND		1.00			"	"	n	
m,p-Xylene		n	ND		2.00	"	"	"	"		
Surrogate(s):	Dibromofluoromethane	?		103%		62.9	9 - 131 %	"		n .	
- "	Toluene-d8			90.2%			7 - 133 %	"		"	
	4-bromofluorobenzene			94.4%		60.8	8 - 140 %	"		"	

TestAmerica - Spokane, WA

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Randee Decker, Project Manager

(andu<u>wlao</u>





URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

### Semivolatile Petroleum Products by NWTPH-Dx - Laboratory Quality Control Results

QC Batch: 6120145	Water P	reparation	Method: El	A 3510/6	00 Series									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	RPD (	Limits)	Analyzed	Notes
Blank (6120145-BLK1)								Exti	acted:	12/26/06 14	1:21			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x							12/27/06 23:49	
Heavy Oil Range Hydrocarbons	n	ND		0.500	"	"							"	
Surrogate(s): 2-FBP		Recovery:	91.5%	Lin	nits: 50-150%	"							12/27/06 23:49	
p-Terphenyl-d14			99.5%		50-150%									
LCS (6120145-BS1)								Ext	racted:	12/26/06 14	1:21			
Diesel Range Hydrocarbons	NWTPH-Dx	2.77		0.250	mg/l	1x		2.50	111%	(50-150)			12/28/06 00:23	
Surrogate(s): 2-FBP		Recovery:	106%	Lii	nits: 50-150%	"							12/28/06 00:23	
p-Terphenyl-d14			102%		50-150%	"							"	
LCS Dup (6120145-BSD1)								Ext	racted:	12/26/06 14	4:21			
Diesel Range Hydrocarbons	NWTPH-Dx	2.83		0.250	mg/l	1x		2.50	113%	(50-150)	2.14% (	(11.8)	12/28/06 00:56	
Surrogate(s): 2-FBP		Recovery:	106%	Li	nits: 50-150%	"							12/28/06 00:56	
p-Terphenyl-d14			101%		50-150%	"							"	

TestAmerica - Spokane, WA

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tandia Randee Decker, Project Manager





URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos

Report Created: 01/04/07 15:29

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

TestAmerica - Spokane, WA

QC Batch: 6120162	Water P	reparation M	lethod: GO	C/MS Vol	atiles									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6120162-BLK1)								Extra	cted:	12/28/06 10	:04			
Acetone	EPA 8260B	ND		25.0	ug/l	1x				land		]	2/28/06 10:18	
Benzene	"	ND		1.00	"	310							"	
Bromobenzene	"	ND		1.00		•				(			W	
Bromochloromethane		ND		1.00	"	"							и	
Bromodichloromethane		ND		1.00	"	"							п	
Bromoform	Ti.	ND		1.00	•	"	**							
Bromomethane		ND		5.00	"	и				-				
2-Butanone		ND		10.0		"							"	
n-Butylbenzene	"	ND		1.00									"	
sec-Butylbenzene	"	ND		1.00									,,	
tert-Butylbenzene	n	ND		1.00	"									
Carbon disulfide		ND		1.00		10							**	
Carbon tetrachloride		ND	***	1.00									"	
Chlorobenzene	u	ND		1.00	*									
Chloroethane	"	ND		1.00	**	"				100				
Chloroform	"	ND		1.00	"	"							ar .	
Chloromethane		ND		5.00									n .	
2-Chlorotoluene		ND		1.00	n								н	
4-Chlorotoluene	•	ND		1.00									"	
Dibromochloromethane		ND		1.00									н	
1,2-Dibromo-3-chloropropane		ND		5.00		"								
1,2-Dibromoethane	*	ND		1.00	**	"					-		in .	
Dibromomethane		ND		1.00	"	"							n .	
1,2-Dichlorobenzene	,,,	ND		1.00	"	"					-			
1,3-Dichlorobenzene		ND		1.00		"								
1,4-Dichlorobenzene	*	ND		1.00									u	
Dichlorodifluoromethane		ND		1.00					**				ा।	
1,1-Dichloroethane	и	ND		1.00				155			-			
1,2-Dichloroethane (EDC)	n	ND		1.00		"							"	
1,1-Dichloroethene	*	ND		1.00	·M	11.5							ii .	
cis-1,2-Dichloroethene	,n	ND		1.00		"							"	
trans-1,2-Dichloroethene		ND		1.00	"								"	
1,2-Dichloropropane		ND		1.00		ñ.							u	
1,3-Dichloropropane		ND		1.00		"							· u	
2,2-Dichloropropane	n	ND		1.00	"	"					-			
1,1-Dichloropropene	an an	ND		1.00		"							u	
cis-1,3-Dichloropropene		ND		1.00		"							"	
trans-1,3-Dichloropropene		ND		1.00		m.							, ii	
Ethylbenzene	m .	ND		1.00					-4.					
Emylocuzene		ND	0.55	1.00										

TestAmerica - Spokane, WA

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URS Corp.

Project Name:

**Uptown Shopping Center** 

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

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

TestAmerica - Spokane, WA

QC Batch: 6120162	Water P	reparation l	Method: Go	C/MS Vol	atiles									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (6120162-BLK1)								Extr	acted:	12/28/06 10	:04			
Hexachlorobutadiene	EPA 8260B	ND		1.00	ug/l	1x				••			12/28/06 10:18	
2-Hexanone	n:	ND		10.0		"			•••				11	
Isopropylbenzene	"	ND		1.00		"					-		9	
p-Isopropyltoluene		ND		1.00		·								
Methylene chloride	"	ND		10.0		"							"	
4-Methyl-2-pentanone	"	ND		10.0	"	"							"	
Methyl tert-butyl ether	н.	ND		1.00		ü							"	
Naphthalene	W.	ND		2.00	"								"	
n-Propylbenzene		ND		1.00	110						-		"	
Styrene		ND		1.00	**		**							
1,1,1,2-Tetrachloroethane		ND		1.00	"								"	
1,1,2,2-Tetrachloroethane	"	ND		1.00	"									
Tetrachloroethene		ND		1.00		**			122				"	
Toluene	•	ND		1.00	in .	"	0						110	
,2,3-Trichlorobenzene	n.	ND		1.00	n.	"		**			**		"	
1,2,4-Trichlorobenzene	u	ND		1.00	11.									
1,1,1-Trichloroethane	u	ND		1.00	110	w			1				n.	
1,1,2-Trichloroethane		ND		1.00	"					-			•	
Trichloroethene		ND		1.00	"	9							, r	
Trichlorofluoromethane	m.	ND		1.00	"	"								
1,2,3-Trichloropropane	n	ND		1.00	11	"							n .	
1,2,4-Trimethylbenzene		ND		1.00		m:							и.	
1,3,5-Trimethylbenzene	n	ND		1.00	W.	**							II .	
Vinyl chloride	"	ND		0.200	W.				-					
o-Xylene	an .	ND	***	1.00	"	"					-	-5	n	
m,p-Xylene		ND		2.00	"	"			144				u	
Surrogate(s): Dibromofluoromet	hane	Recovery:	90.2%	Limit	s: 62.9-131%	"							12/28/06 10:1	8
Toluene-d8			97.3%		58.7-133%	"							"	
4-bromofluoroben	zene		96.6%		60.8-140%	"							"	

TestAmerica - Spokane, WA

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Randee Decker, Project Manager

Cardwales





URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

**Uptown Shopping Center** 

Project Number: Project Manager: 36298182 Dave Enos Report Created:

01/04/07 15:29

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

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Note
LCS (6120162-	-BS1)								Extr	acted:	12/28/06 10	:04			
Benzene		EPA 8260B	8.67	12-2	1.00	ug/l	1x		10.0	86.7%	(70-130)			12/28/06 10:46	
Chlorobenzene		"	9.11		1.00		"		•	91.1%	(68.3-123)		22	m	
1,1-Dichloroethene		"	9.55		1.00	"	"		"	95.5%	(67-137)			en .	
Foluene			9.10		1.00	"			n	91.0%	(68.8-139)				
Trichloroethene			9.61		1.00	"				96.1%	(68.1-128)			ii .	
Surrogate(s):	Dibromofluoromethane		Recovery:	95.2%	Limit	s: 62.9-131%	"							12/28/06 10:46	
	Toluene-d8		•	95.0%		58.7-133%	"							"	
	4-bromofluorobenzene			89.5%		60.8-140%	, "							"	
	04 (4 POP4)								Extr	acted:	12/28/06 10	.04			
LCS Dup (612	0162-BSD1)		0.00		1.00		1		10.0	90.2%	(70-130)		6 (10)	12/28/06 11:14	
Benzene		EPA 8260B	9.02	****	1.00	ug/l	lx		10.0	99.3%			()	12/28/00 11.14	
Chlorobenzene			9.93		1.00					105%					
1,1-Dichloroethene		"	10.5		1.00	,,		<del></del>			(67-137)		6 (14)		
Toluene			9.61		1.00	"				96.1%	(68.8-139)		(12)		
Trichloroethene		"	10.5		1.00	."				105%	(68.1-128)	8.85%	(10)		
Surrogate(s):	Dibromofluoromethane		Recovery:	99.8%	Limi	ts: 62.9-131%								12/28/06 11:14	
	Toluene-d8			93.7%		58.7-133%								,,	
	4-bromofluorobenzene			90.6%		60.8-140%									
Matrix Spike	(6120162-MS1)				QC Source:	SPL0114-02	:		Exti	acted:	12/28/06 10	:04			
Benzene		EPA 8260B	9.18		1.00	ug/l	1x	ND	10.0	91.8%	(59.7-129)			12/28/06 13:34	
Chlorobenzene		"	9.45		1.00	0.0		ND	"	94.5%	(75.8-121)				
1,1-Dichloroethene		**	9.79		1.00	"		ND	"	97.9%	(63.8-137)		-	"	
Toluene		,	9.15		1.00		"	ND	n	91.5%	(84.5-127)			"	
Trichloroethene		"	10.4		1.00			0.244		102%	(75.5-129)		••	"	
Surrogate(s):	Dibromofluoromethane		Recovery:	95.6%	Limi	ts: 62.9-131%	"							12/28/06 13:34	
	Toluene-d8			90.8%		58.7-133%	6 "							"	
	4-bromofluorobenzene			92.5%		60.8-140%	6 "							"	
Matrix Spike D	Oup (6120162-MSD	1)			QC Source	: SPL0114-02	2		Ext	racted:	12/28/06 10	0:04			
Benzene	(	EPA 8260B	8.48		1.00	ug/l	lx	ND	10.0	84.8%	(59.7-129)	7.939	% (10)	12/28/06 14:02	
Chlorobenzene			9.20		1.00	"		ND		92.0%	(75.8-121)	2.689	% (11)	"	
1,1-Dichloroethene			9.52		1.00	"	"	ND	"	95.2%	(63.8-137)	2.80%	% (14)		
Toluene		"	8.68		1.00	,,		ND			(84.5-127)		% (12)	"	
Trichloroethene		"	10.0		1.00	101		0.244	н		(75.5-129)		% (10)	· ·	
	Dibromofluoromethane		Recovery:	100%	Limi	its: 62.9-131%	, "				w/l		80 - 80	12/28/06 14:02	
Surrogate(s):	Divromojiuoromeinane		necovery.	100/0	Limi										
	Toluene-d8			96.1%		58.7-1339	6 "								

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

920 N. Argonne Road Suite 300

Project Name:

**Uptown Shopping Center** 

Project Number:

36298182

Report Created:

Project Manager:

Dave Enos

01/04/07 15:29

#### **Notes and Definitions**

#### Report Specific Notes:

Spokane, WA 99212

None

#### Laboratory Reporting Conventions:

Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only. DET

Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate). ND

NR/NA \_ Not Reported / Not Available

Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight. dry

Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported wet

on a Wet Weight Basis.

RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries). RPD

METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table. MRL

METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. MDL\* \*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

Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution Dil

found on the analytical raw data.

Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and Reporting -

percent solids, where applicable.

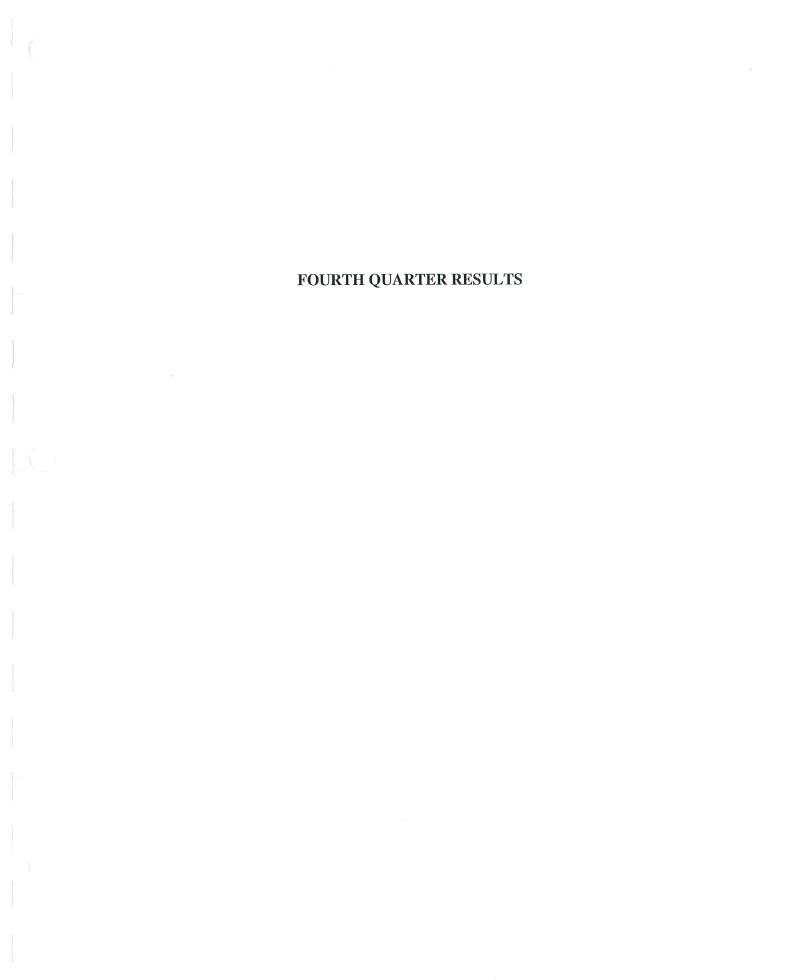
Electronic Signature added in accordance with TestAmerica's Electronic Reporting and Electronic Signatures Policy. Electronic Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Signature

Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.







March 16, 2007

Dave Enos URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212

RE: City Of Richland USC

Enclosed are the results of analyses for samples received by the laboratory on 03/09/07 08:09. The following list is a summary of the Work Orders contained in this report, generated on 03/16/07 09:43.

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

Work Order	Project	<u>ProjectNumber</u>
SQC0025	City Of Richland USC	36298182

TestAmerica - Spokane, WA

Randee Decker, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

Project Name:

City Of Richland USC

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number:

36298182

Report Created:

Project Manager: Dave Enos 03/16/07 09:43

#### ANALYTICAL REPORT FOR SAMPLES **Date Sampled Date Received** Laboratory ID Matrix Sample ID SQC0025-01 Water MW3GW04 03/07/07 11:48 03/09/07 08:09 SQC0025-02 MW6GW04 Water 03/07/07 13:02 03/09/07 08:09 MW5GW04 SQC0025-03 Water 03/07/07 14:11 03/09/07 08:09 SQC0025-04 Water MW7GW04 03/07/07 15:12 03/09/07 08:09 MW1GW04 SQC0025-05 Water 03/07/07 16:02 03/09/07 08:09 MW2GW04 SQC0025-06 Water 03/07/07 17:31 03/09/07 08:09

TestAmerica - Spokane, WA

(ardubleo Randee Decker, Project Manager The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

# Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-01 (MW3GW04)		Wa	iter		Sam	pled: 03/	07/07 11:48			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	7030042	03/12/07 09:04	03/13/07 10:02	
Heavy Oil Range Hydrocarbons		ND	(Marketon)	0.500	"		"	"	"	
Surrogate(s): 2-FBP			99.0%		50	- 150 %	n		n	
p-Terphenyl-d14			104%		50	- 150 %	"		· Hr	
SQC0025-02 (MW6GW04)		Wa	iter		Sam	pled: 03/	07/07 13:02			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	7030042	03/12/07 09:04	03/13/07 10:36	
Heavy Oil Range Hydrocarbons	u .	ND		0.500	"		"	•	"	
Surrogate(s): 2-FBP			93.4%		50	- 150 %	"		n	
p-Terphenyl-d14			99.0%		50	- 150 %	"		n .	
SQC0025-03 (MW5GW04)		Wa	iter		Sam	pled: 03/	07/07 14:11			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	7030042	03/12/07 09:04	03/13/07 11:09	
Heavy Oil Range Hydrocarbons	m .	ND		0.500	ii.	•	"	"	"	
Surrogate(s): 2-FBP			98.0%		50	- 150 %	"		"	
p-Terphenyl-d14			103%		50	- 150 %	"		"	
SQC0025-04 (MW7GW04)		Wa	iter		Sam	pled: 03/	07/07 15:12			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	7030042	03/12/07 09:04	03/13/07 11:43	
Heavy Oil Range Hydrocarbons	п	ND		0.500	u u	"		"	"	
Surrogate(s): 2-FBP			92.6%			- 150 %	"		n	
p-Terphenyl-d14			96.0%		50	- 150 %	"		"	
SQC0025-05 (MW1GW04)		Wa	iter		Sam	pled: 03/	07/07 16:02			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	7030042	03/12/07 09:04	03/13/07 12:16	
Heavy Oil Range Hydrocarbons	**	ND		0.500	W	"	"			
Surrogate(s): 2-FBP			93.4%		50	- 150 %	"		"	
p-Terphenyl-d14			101%		50	- 150 %	"		"	
SQC0025-06 (MW2GW04)		Wa	ater		Sam	pled: 03/	07/07 17:31			
Diesel Range Hydrocarbons	NWTPH-Dx	3.00		0.250	mg/l	1x	7030042	03/12/07 09:04	00/1/07/10/07	
Heavy Oil Range Hydrocarbons	100	ND		0.500	"		u	"		
Surrogate(s): 2-FBP			110%		50	- 150 %	"		"	
p-Terphenyl-d14			105%		50	- 150 %	"		"	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Cardiales Randee Decker, Project Manager





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-01 (MW3GW04)		Wa	ter		Sam	pled: 03/0	07/07 11:48			
Acetone	EPA 8260B	ND		25.0	ug/l	1x	7030040	03/09/07 11:46	03/09/07 12:52	
Benzene	"	ND		1.00	"			**	×0	
Bromobenzene	"	ND		1.00					*U	
Bromochloromethane	*	ND		1.00	"		"		· u	
Bromodichloromethane		ND		1.00	"		"	,11		
Bromoform	n	ND		1.00	•		ñ.	n n	"	
Bromomethane	"	ND		5.00	"	**			· ·	
2-Butanone		ND		10.0	•		"	**	"	
n-Butylbenzene	"	ND		1.00				111	"	
sec-Butylbenzene		ND		1.00		ж	21	"	,,	
tert-Butylbenzene	н	ND		1.00		•	"	"		
Carbon disulfide	n	ND		1.00	"		*		"	
Carbon tetrachloride	n	ND		1.00	"				"	
Chlorobenzene	u	ND		1.00				"	"	
Chloroethane	w	ND		1.00		*	"	"	11	
Chloroform		2.30		1.00	"	"	*	2 <b>11</b>		
Chloromethane		ND		5.00		ж	**		n.	
2-Chlorotoluene	"	ND		1.00		199	110		и.	
4-Chlorotoluene	n	ND		1.00			"	"	n:	
Dibromochloromethane	n	ND		1.00	77	· ·	"	<b>n</b> :		
1,2-Dibromo-3-chloropropane	n	ND		5.00	"		и	n:		
1,2-Dibromoethane	n ·	ND		1.00	"		"	u.	H:	
Dibromomethane	n	ND		1.00	"	"		u:	"	
1,2-Dichlorobenzene	•	ND		1.00	"		,00	w.	n.	
1,3-Dichlorobenzene	**	ND		1.00	"			**	**	
1,4-Dichlorobenzene		ND	*****	1.00	**	"	н	n:	и.	
Dichlorodifluoromethane	u u	ND		1.00		"	**		**	
1,1-Dichloroethane		ND		1.00	"			и.	11	
1,2-Dichloroethane (EDC)	w.	ND		1.00	**	"	w	10.	TE .	
1,1-Dichloroethene	in .	ND		1.00		,	w		п.	
cis-1,2-Dichloroethene	"	ND		1.00			:10.	0.	и.	
trans-1,2-Dichloroethene	"	ND		1.00	"	100	**	"	n	
1,2-Dichloropropane	e e	ND		1.00	"	"	эт		n:	
1,3-Dichloropropane		ND		1.00	"		"		<i>y</i> r	
2,2-Dichloropropane	"	ND		1.00		y.	u	п		
1,1-Dichloropropene	"	ND		1.00				"		
cis-1,3-Dichloropropene	W.	ND		1.00	,		n	"		
trans-1,3-Dichloropropene	w.	ND		1.00	n			n	н	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: 36298182 Project Manager: Dave Enos

Report Created: 03/16/07 09:43

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-02 (MW6GW04)		Wa	iter		Sam	pled: 03/0	7/07 13:02			
Acetone	EPA 8260B	ND		25.0	ug/l	1 x	7030040	03/09/07 11:46	03/09/07 14:18	
Benzene		ND		1.00		**		"		
Bromobenzene	"	ND		1.00	"		"	"	"	
Bromochloromethane	n	ND		1.00	"	"	"	"	n ·	
Bromodichloromethane	W.	ND		1.00			"	**	"	
Bromoform	,,	ND		1.00	"	•	"	"	n:	
Bromomethane	m .	ND		5.00	"	."	"		**	
2-Butanone	n .	ND		10.0	"	u	"			
n-Butylbenzene		ND		1.00	n				"	
sec-Butylbenzene	n	ND	Seeme	1.00		"	"	"	n:	
tert-Butylbenzene		ND		1.00		"		п	11:	
Carbon disulfide	н	ND		1.00	20	v		"	**	
Carbon tetrachloride	"	ND		1.00	*		22	( <b>u</b>	n.	
Chlorobenzene	n	ND		1.00		9"		"	11	
Chloroethane	n	ND		1.00	11		- m		ж	
Chloroform	"	1.90		1.00	"	"	n	**		
Chloromethane	"	ND	****	5.00	110	m:	. 11	"	•	
2-Chlorotoluene	11	ND		1.00	•			"	п	
4-Chlorotoluene	W	ND		1.00		***			"	
Dibromochloromethane	W .	ND		1.00		**	"	: ii		
1,2-Dibromo-3-chloropropane	w	ND		5.00	21.	"			•	
1,2-Dibromoethane	· n	ND		1.00						
Dibromomethane	"	ND		1.00		**		1.0	·	
1,2-Dichlorobenzene	"	ND	****	1.00				ü		
1,3-Dichlorobenzene	"	ND	*****	1.00	"	"	"	"	"	
1,4-Dichlorobenzene	n	ND		1.00	98		11.0	Ü	•	
Dichlorodifluoromethane	"	ND		1.00			"	"		
1,1-Dichloroethane	"	ND		1.00	311.		"		"	
1,2-Dichloroethane (EDC)	u .	ND		1.00	V##:	30:	"	•		
1,1-Dichloroethene	u.	ND		1.00	311	301		ü		
cis-1,2-Dichloroethene	<u>u</u> .	ND		1.00		n	и.	n	•	
trans-1,2-Dichloroethene	m.	ND		1.00	jn.		"	n	•	
1,2-Dichloropropane	<u>n</u>	ND		1.00		an.		*	Ü	
1,3-Dichloropropane	W.	ND		1.00		æ	"	no	.0	
2,2-Dichloropropane	"	ND		1.00		**	"	11.0	"	
1,1-Dichloropropene	W.	ND		1.00	"	"	"	0.5	l III	
cis-1,3-Dichloropropene	w	ND		1.00		"	"	411	n	
trans-1,3-Dichloropropene	Ti.	ND		1.00			"		н	
1,5 Bromotopropene		Emile 1								

TestAmerica - Spokane, WA

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tandu<u>bleo</u> Randee Decker, Project Manager





URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-02 (1	MW6GW04)		Wa	ter		Sam	pled: 03/0'	7/07 13:02			
Ethylbenzene		EPA 8260B	ND		1.00	ug/l	1x	7030040	03/09/07 11:46	03/09/07 14:18	
Hexachlorobutadiene			ND		1.00		"	. 11		· ·	
2-Hexanone		"	ND	****	10.0	n	"	111		an .	
Isopropylbenzene		**	ND		1.00	"	**	n		н	
p-Isopropyltoluene		H	ND		1.00	"	ж			n.	
Methylene chloride		<b>1</b> 0	ND	****	10.0		ar.	"			
4-Methyl-2-pentanon	e		ND		10.0		"		.11		
Methyl tert-butyl ethe	er		ND		1.00			"	**		
Naphthalene		**	ND		2.00		ar	"	"	"	
n-Propylbenzene		n	ND		1.00	я	311.	"	,,		
Styrene		н	ND		1.00	"	316	"	н	ű	
1,1,1,2-Tetrachloroet	hane		ND		1.00	· ·	"	"		"	
1,1,2,2-Tetrachloroet	hane		ND		1.00	311	"	110	н	"	
Tetrachloroethene			3.23		1.00	"	"	"	"	**	
Toluene		m.	ND		1.00		iii	"		•	
,2,3-Trichlorobenze	ne		ND		1.00		u	"		"	
1,2,4-Trichlorobenze	ne		ND		1.00	"	n	"	*	"	
1,1,1-Trichloroethan	e	"	ND		1.00	"	in .	"		"	
1,1,2-Trichloroethan	e	"	ND		1.00	"	10	"	Ü	"	
Trichloroethene		"	ND		1.00	"	an .	"	u		
Trichlorofluorometha	ane	"	ND		1.00	"	10	n	ü	н	
1,2,3-Trichloropropa	ne	"	ND		1.00				·		
1,2,4-Trimethylbenze	ene	"	ND		1.00		"	"	Ü	ñ.	
1,3,5-Trimethylbenze	ene		ND		1.00			"	ü	"	
Vinyl chloride		п	ND		0.200	. 10			ii .	11	
o-Xylene		n	ND		1.00	**		"	Ü	u.	
m,p-Xylene		"	ND		2.00	10	**	"	11.	"	
Surrogate(s):	Dibromofluoromethane			110%		62.	9 - 131 %	"		"	
	Toluene-d8			101%			7 - 133 %	"		<i>n</i>	
	4-bromofluorobenzene			102%		60.	8 - 140 %	"		"	

TestAmerica - Spokane, WA

(ardesslee) Randee Decker, Project Manager The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

Project Name:

City Of Richland USC

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-03 (MW5GW04)		Wa	iter		Sam	pled: 03/0	7/07 14:11			
Acetone	EPA 8260B	ND		25.0	ug/l	1x	7030040	03/09/07 11:46	03/09/07 14:47	
Benzene		ND		1.00			u.	."		
Bromobenzene	и	ND		1.00		"	"	•	"	
Bromochloromethane	"	ND		1.00		"	"		"	
Bromodichloromethane	n	ND		1.00	"			u	,,	
Bromoform	m .	ND		1.00			"	"		
Bromomethane	n	ND		5.00	"		"	n	"	
2-Butanone	n	ND		10.0	"	"	"		"	
n-Butylbenzene	ĬĬ.	ND		1.00	"	"	W.		28	
sec-Butylbenzene	"	ND		1.00				"	и	
tert-Butylbenzene	m .	ND		1.00		*			"	
Carbon disulfide	iii	ND		1.00	n		•	"	"	
Carbon tetrachloride	w	ND		1.00			"	n.		
Chlorobenzene	iii	ND		1.00	"	*	"	"		
Chloroethane	"	ND		1.00	**	"	n	u.	п	
Chloroform	"	1.62		1.00	u u		"	"	n	
Chloromethane	"	ND		5.00	**	ж.		"		
2-Chlorotoluene	"	ND		1.00	"			,,	"	
4-Chlorotoluene	ıı .	ND		1.00	"	"	11		,	
Dibromochloromethane	"	ND	****	1.00	"	"	"		"	
1,2-Dibromo-3-chloropropane	n	ND		5.00	"	н	"	"	"	
1,2-Dibromoethane	n	ND		1.00	"	"	"	"	"	
Dibromomethane	n	ND		1.00		"	n	*		
1,2-Dichlorobenzene		ND		1.00	"		"	"		
1,3-Dichlorobenzene		ND		1.00	**	"	и		"	
1,4-Dichlorobenzene	n .	ND		1.00			"	"		
Dichlorodifluoromethane	u.	ND		1.00	n.	"	"	"	"	
1,1-Dichloroethane	W.	ND		1.00		,,	w	u u	10.0	
1,2-Dichloroethane (EDC)	"	ND		1.00	"	"		"	10.5	
1,1-Dichloroethene	•	ND		1.00			"	"	n ·	
cis-1,2-Dichloroethene	w	ND		1.00	· u	"	"	"	Ti.	
trans-1,2-Dichloroethene	w	ND		1.00	"	**	"	"	n:	
1,2-Dichloropropane	"	ND		1.00		"	"		<b>n</b> *	
1,3-Dichloropropane	,,	ND		1.00	"	"	"	"	11	
2,2-Dichloropropane	Tr.	ND		1.00	,		•	•	n	
1,1-Dichloropropene	n	ND		1.00		"		"	11	
cis-1,3-Dichloropropene	ïi.	ND		1.00	0		u		11.	
trans-1,3-Dichloropropene	"	ND	,	1.00	o			"	,,	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-03 (MW5GW04)		Wa	iter		Sam	pled: 03/0	7/07 14:11			
Ethylbenzene	EPA 8260B	ND		1.00	ug/l	1x	7030040	03/09/07 11:46	03/09/07 14:47	
Hexachlorobutadiene	T .	ND		1.00				w	*	
2-Hexanone		ND		10.0	и			•	•	
Isopropylbenzene	u u	ND		1.00	"	"		•	,,	
p-Isopropyltoluene	m .	ND		1.00	n	"		"	9	
Methylene chloride	•	ND		10.0		"	11		90	
4-Methyl-2-pentanone	ii.	ND		10.0	n		"			
Methyl tert-butyl ether	m.	ND		1.00	u		н	"		
Naphthalene	•	ND		2.00	n		"	•	u	
n-Propylbenzene	n .	ND		1.00	n	THE STATE OF THE S			"	
Styrene	u u	ND		1.00				u		
1,1,1,2-Tetrachloroethane	"	ND		1.00	100		"	·	"	
1,1,2,2-Tetrachloroethane	W.	ND		1.00	u				n	
Tetrachloroethene	115	4.47		1.00	"		"		**	
Toluene	•	ND		1.00	J#		и	"	II.	
,2,3-Trichlorobenzene	"	ND		1.00	u	"		"	u.	
1,2,4-Trichlorobenzene	W.	ND		1.00		"	"	"		
1,1,1-Trichloroethane		ND		1.00		"	"	"	u	
1,1,2-Trichloroethane	m.	ND		1.00			"	•	"	
Trichloroethene	W.	ND		1.00		"		•		
Trichlorofluoromethane		ND		1.00	"		u		11	
1,2,3-Trichloropropane	w.	ND		1.00	"				"	
1,2,4-Trimethylbenzene	0.	ND		1.00	"	"	"	"	**	
1,3,5-Trimethylbenzene		ND		1.00	"	"	"	"	n	
Vinyl chloride	m .	ND		0.200	"	"	n		11	
o-Xylene	"	ND		1.00	"		· ·	"		
m,p-Xylene	"	ND		2.00	"	,	"	"		
Surrogate(s): Dibromofluorome	thane		110%		62.9	- 131 %	"		"	
Toluene-d8			99.1%		58.7	- 133 %	"		u.	
4-bromofluoroben	zene		105%		60.8	- 140 %	"		"	

TestAmerica - Spokane, WA

about Randee Decker, Project Manager The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





URS Corp.

Project Name:

City Of Richland USC

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos

Report Created: 03/16/07 09:43

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Note
SQC0025-04 (MW7GW04)		Wa	iter		Samp	pled: 03/0	07/07 15:12			
Acetone	EPA 8260B	ND		25.0	ug/l	lx	7030040	03/09/07 11:46	03/09/07 15:16	
Benzene		ND	*****	1.00	"	iii	"		"	
Bromobenzene		ND		1.00	"	"	"		"	
Bromochloromethane	•	ND		1.00	"	"	"		"	
Bromodichloromethane		ND		1.00	"			"		
Bromoform		ND		1.00	"		"		"	
Bromomethane	**	ND		5.00	"	"	"	**	*	
2-Butanone	,	ND		10.0	"	"	"	m	m.	
n-Butylbenzene	**	ND		1.00	"			**	•	
sec-Butylbenzene	**	ND		1.00	u		"			
tert-Butylbenzene	*	ND		1.00	"		"	m?	n	
Carbon disulfide	n.	ND		1.00	"				w.	
Carbon tetrachloride	**	ND		1.00	"	•	"	n	"	
Chlorobenzene	и.	ND		1.00	u			**		
Chloroethane	m .	ND		1.00	*	"	n		u	
Chloroform		2.24		1.00		n	"			
Chloromethane	n.	ND	*****	5.00	"	*0	"		u	
2-Chlorotoluene	<b>n</b>	ND		1.00	"		"		u	
4-Chlorotoluene		ND		1.00	•		"		u	
Dibromochloromethane		ND		1.00			n	"		
1,2-Dibromo-3-chloropropane	W	ND		5.00			"	n	"	
1,2-Dibromoethane	m.	ND		1.00			n	"	**	
Dibromomethane	n	ND		1.00		"	"	"	"	
1,2-Dichlorobenzene	и	ND		1.00			11	"	y	
1,3-Dichlorobenzene		ND		1.00			**	"	"	
1,4-Dichlorobenzene		ND		1.00	91		n	"	"	
Dichlorodifluoromethane	n	ND		1.00			n	"	u .	
1,1-Dichloroethane	m.	ND		1.00	90	"	u	"	"	
1,2-Dichloroethane (EDC)		ND		1.00				"		
1,1-Dichloroethene		ND		1.00	,,			"	9.	
cis-1,2-Dichloroethene	n	17.2		1.00				n	9	
rans-1,2-Dichloroethene		ND		1.00	u .	0.00	.11	11	u.	
1,2-Dichloropropane	n	ND		1.00			Ħ	11		
1,3-Dichloropropane	,,	ND		1.00		н		н	u.	
2,2-Dichloropropane		ND		1.00	"	"	"	и	2.	
1,1-Dichloropropene	n	ND		1.00	"	in.	"	"	"	
cis-1,3-Dichloropropene		ND		1.00	,,	"	"	"		
trans-1,3-Dichloropropene		ND	****	1.00		"	"		2.	

TestAmerica - Spokane, WA

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URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager:

36298182 Dave Enos Report Created:

03/16/07 09:43

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-04 (M	IW7GW04)		Wat	ter		Sam	pled: 03/0	7/07 15:12			
Ethylbenzene	1	EPA 8260B	ND		1.00	ug/l	1x	7030040	03/09/07 11:46	03/09/07 15:16	
Hexachlorobutadiene		"	ND		1.00	и	"		11.		
2-Hexanone		n	ND		10.0	"	"				
Isopropylbenzene		ж	ND	*****	1.00	"	"	"		,,	
p-Isopropyltoluene		н	ND		1.00		"	"			
Methylene chloride		an .	ND		10.0	"	н	"	••		
4-Methyl-2-pentanone		an .	ND		10.0	n	"		"	u	
Methyl tert-butyl ether	,	ж	ND		1.00	"	•	"		"	
Naphthalene		"	ND		2.00	"	"	"	200	"	
n-Propylbenzene		"	ND		1.00	w	"	"	n	"	
Styrene		v	ND		1.00	"	n	"		"	
1,1,1,2-Tetrachloroetha	ane		ND		1.00	"	"	"	"	"	
1,1,2,2-Tetrachloroetha	ane	"	ND		1.00	11	"	"		n	
Tetrachloroethene		"	49.2		1.00	"	"	n	n	"	
Toluene		"	ND		1.00		100	"	"	w.	
1,2,3-Trichlorobenzene	e	н.	ND		1.00		"	"			
1,2,4-Trichlorobenzen	e	u .	ND		1.00	n	"		"	U	
1,1,1-Trichloroethane		m'	ND		1.00	"	"	"	"		
1,1,2-Trichloroethane		n'	ND		1.00	**		"	п	"	
Trichloroethene			7.87		1.00		II .	"		"	
Trichlorofluoromethan	ne	"	ND		1.00	· u	"	"	× <b>u</b>	"	
1,2,3-Trichloropropane	e	".	ND		1.00	"	"	"	3.00	u.	
1,2,4-Trimethylbenzen	ne	"	ND		1.00	"	· W	"	811	"	
1,3,5-Trimethylbenzen	ne	n.	ND		1.00		u	"		"	
Vinyl chloride		и	ND		0.200	"	"		"		
o-Xylene		и.	ND		1.00	"	· ·	**		11.	
m,p-Xylene		n	ND		2.00	"	aii.	"	u	10	
Surrogate(s): 1	Dibromofluoromethane			110%		62.9	- 131 %	"		"	
0 ,,	Toluene-d8			99.9%		58.7	- 133 %	n		"	
4	4-bromofluorobenzene			103%		60.8	3 - 140 %	"		"	

TestAmerica - Spokane, WA

(and will Randee Decker, Project Manager The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager:

36298182 Dave Enos Report Created:

03/16/07 09:43

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-05 (MW1GW04)		Wa	ter		Sam	pled: 03/0	7/07 16:02			
Acetone	EPA 8260B	ND		25.0	ug/l	1x	7030040	03/09/07 11:46	03/09/07 15:44	
Benzene	n	ND		1.00		**	"	u	•	
Bromobenzene	н	ND		1.00		**		w.	Æ	
Bromochloromethane	· ·	ND		1.00	<b>30.</b>	"		U	v	
Bromodichloromethane	w	ND		1.00	311.			u	v	
Bromoform	w,	ND	****	1.00	ar.	"		"	n	
Bromomethane	u	ND		5.00	3 <b>H</b> .			u	Ü	
2-Butanone	an .	ND		10.0	"				"	
n-Butylbenzene	**	ND		1.00			Ü	"		
sec-Butylbenzene	и	ND		1.00	, u		ï	11	ũ.	
tert-Butylbenzene	"	ND		1.00		·	ii .	U		
Carbon disulfide		ND		1.00		n	•	п	ŭ	
Carbon tetrachloride	"	ND		1.00			ü	"	и	
Chlorobenzene	,	ND		1.00	in .	"		"	ii .	
Chloroethane	"	ND		1.00	n.		"	n		
Chloroform		ND		1.00	SH.	***	n.	Ü	•	
Chloromethane	"	ND		5.00			n	, iii		
2-Chlorotoluene		ND		1.00	an .		n		•	
4-Chlorotoluene		ND		1.00			H)	"	"	
Dibromochloromethane		ND		1.00	n			"	n	
1,2-Dibromo-3-chloropropane	n ·	ND		5.00		***	n	<b>B</b> (	n	
1,2-Dibromoethane		ND		1.00	100	70.	n:		n ,	
Dibromomethane	w	ND		1.00		w		11/2	m.	
1,2-Dichlorobenzene		ND		1.00		***		u ·		
1,3-Dichlorobenzene	"	ND		1.00				110	n .	
1,4-Dichlorobenzene	"	ND		1.00		:0	"	"	"	
Dichlorodifluoromethane		ND		1.00			"	11.7	ũ	
1,1-Dichloroethane		ND		1.00	"		"	ш.	n.	
1,2-Dichloroethane (EDC)		ND		1.00	"		"	m:	**	
1,1-Dichloroethene	n	ND		1.00	"	***	ns	ĬI:	"	
cis-1,2-Dichloroethene	•	ND		1.00			и:	10	"	
trans-1,2-Dichloroethene		ND		1.00		100			**	
1,2-Dichloropropane	"	ND		1.00	"	Set .		HE		
1,3-Dichloropropane		ND		1.00		:11		н	m:	
2,2-Dichloropropane		ND		1.00				н	*	
1,1-Dichloropropene		ND		1.00		n	,,,	n.	*	
cis-1,3-Dichloropropene		ND		1.00		"	"		и	
trans-1,3-Dichloropropene		ND		1.00	,,	"	,,	,,	и	

TestAmerica - Spokane, WA

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Cardinsons) Randee Decker, Project Manager





URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-05 (MW1GW0	4)	Wa	ter		Sam	pled: 03/0	7/07 16:02			
Ethylbenzene	EPA 8260B	ND		1.00	ug/l	1x	7030040	03/09/07 11:46	03/09/07 15:44	
Hexachlorobutadiene	<u>n</u>	ND		1.00	110	.0	n	"	"	
2-Hexanone	и	ND		10.0	**		"	**	W.	
Isopropylbenzene		ND		1.00		""	"	*	n.	
p-Isopropyltoluene		ND	*****	1.00		"	"	"	•	
Methylene chloride	y ·	ND		10.0	11	"	"	n:	u.	
4-Methyl-2-pentanone	W	ND		10.0	"	**	"			
Methyl tert-butyl ether		ND		1.00	*	"		ii.	"	
Naphthalene		ND		2.00	"		"	u ·	"	
n-Propylbenzene	<u></u>	ND		1.00	**		ar.	**	n	
Styrene	и	ND		1.00			ж		n	
1,1,1,2-Tetrachloroethane	<u></u>	ND		1.00		110	**	n.	**	
1,1,2,2-Tetrachloroethane		ND		1.00			11	"		
Tetrachloroethene	<u>.u</u>	ND		1.00	**	110	"		BOX	
Toluene		ND		1.00	**	m			(#1)	
1,2,3-Trichlorobenzene	п	ND		1.00					(11)	
1,2,4-Trichlorobenzene		ND		1.00	w				116	
1,1,1-Trichloroethane	n	ND		1.00		n	,,	110	SHU	
1,1,2-Trichloroethane	u u	ND		1.00			"		311	
Trichloroethene	n	ND		1.00			· ·		310	
Trichlorofluoromethane	"	ND	*****	1.00			w	HE	311	
1,2,3-Trichloropropane	u u	ND		1.00	**	"	"	**	an	
1,2,4-Trimethylbenzene	n .	ND		1.00		"	**	"	и	
1,3,5-Trimethylbenzene	n .	ND		1.00		и		m	ж	
Vinyl chloride	u	ND		0.200	"		n,	11	an an	
o-Xylene	u	ND		1.00		w	CII	m.	ж	
m,p-Xylene	u u	ND		2.00	**			н		
Surrogate(s): Dibromoflu	oromethane		110%		62.9	- 131 %	11		"	
Toluene-d8			99.9%		58.7	' - 133 %	"		"	
4-bromoflue	orobenzene		103%		60.8	3 - 140 %	"		"	

TestAmerica - Spokane, WA

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URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-06 (MW2GW04)		Wa	iter		Sampled: 03/07/07 17:31					
Acetone	EPA 8260B	ND		25.0	ug/l	lx	7030040	03/09/07 11:46	03/09/07 17:26	
Benzene		ND	*****	1.00	,,	"	"	*	"	
Bromobenzene		ND		1.00			"	"	Ti Ti	
Bromochloromethane		ND		1.00	**	"	"	n	"	
Bromodichloromethane		ND		1.00		"	n	"	ЭЙ	
Bromoform		ND		1.00	ans.	"	"	n	*	
Bromomethane	<u></u>	ND		5.00		"		n	•	
2-Butanone		ND		10.0					•	
n-Butylbenzene	<u></u>	ND		1.00		Ď.	"		"	
sec-Butylbenzene	<u>n</u>	ND		1.00		n:		"	"	
tert-Butylbenzene		ND		1.00	"			11	"	
Carbon disulfide	u u	ND		1.00		0.0		"	•	
Carbon tetrachloride	w	ND		1.00			"	"	W	
Chlorobenzene	"	ND		1.00	"	"	0		"	
Chloroethane	"	ND		1.00		***		"	"	
Chloroform		1.99		1.00	*	u.	n	"	"	
Chloromethane	"	ND		5.00		"	"	п	"	
2-Chlorotoluene	"	ND		1.00	"	"	"	"	0	
4-Chlorotoluene	"	ND		1.00	"	"	."	н		
Dibromochloromethane	u u	ND		1.00	"	"	"	"		
1,2-Dibromo-3-chloropropane	"	ND		5.00	"	"	ii ii	n	n	
1,2-Dibromoethane	"	ND		1.00	"	"	"		н	
Dibromomethane	"	ND		1.00	"	"	"	<u> </u>		
1,2-Dichlorobenzene	n	ND		1.00	"	"	"	"	11	
1,3-Dichlorobenzene	n.	ND		1.00		,,	"		n	
1,4-Dichlorobenzene	ñ.	ND	****	1.00		*	"	u		
Dichlorodifluoromethane	u u	ND		1.00			"	v		
1,1-Dichloroethane	u:	ND		1.00	Ü	"	"	. 0	w w	
1,2-Dichloroethane (EDC)	n)	ND		1.00	"	"	"	"	W.	
1,1-Dichloroethene	**	ND		1.00	ï	"	"	T T	"	
cis-1,2-Dichloroethene	101	ND		1.00	ï	"	"	Ü		
trans-1,2-Dichloroethene	H	ND		1.00	"	"	"	"		
1,2-Dichloropropane	n	ND		1.00	"	"	•	Ü	u	
1,3-Dichloropropane	•	ND		1.00	"	"	"	Ü	**	
2,2-Dichloropropane		ND		1.00		"	11	Ü	**	
1,1-Dichloropropene		ND		1.00		,,		ñ	"	
cis-1,3-Dichloropropene	"	ND		1.00	**		и	ű	"	
trans-1,3-Dichloropropene	w	ND		1.00			"	"	"	

TestAmerica - Spokane, WA

The results in this report apply to the samples analyzed in accordance with the chain  $of\ custody\ document.\ This\ analytical\ report\ must\ be\ reproduced\ in\ its\ entirety.$ 

Cardender You Randee Decker, Project Manager

Page 14 of 20



URS Corp.

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

# Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Spokane, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SQC0025-06 (MW20	GW04)	Wa	ter		Sam	pled: 03/0	7/07 17:31			
Ethylbenzene	EPA 8260B	ND		1.00	ug/l	1x	7030040	03/09/07 11:46	03/09/07 17:26	
Hexachlorobutadiene	n	ND		1.00		"	"			
2-Hexanone	н.	ND		10.0	"				<u>n</u>	
Isopropylbenzene	n:	ND		1.00	"		"	u.		
p-Isopropyltoluene	n.	ND		1.00	"	ıı	*	"	п	
Methylene chloride	"	ND		10.0	"	"			"	
4-Methyl-2-pentanone	ш	ND		10.0		"	"	"	"	
Methyl tert-butyl ether	, m	ND		1.00	"	11	п	"	"	
Naphthalene	"	ND		2.00	"	"	"		"	
n-Propylbenzene	n	ND		1.00	"	u	"			
Styrene	n	ND		1.00		"	"	"	w.	
1,1,1,2-Tetrachloroethane	"	ND		1.00		U	"	*		
1,1,2,2-Tetrachloroethane	"	ND		1.00	n	"	"	"		
Tetrachloroethene	и	9.42		1.00		"	"	n e	"	
Toluene	"	ND		1.00			.0	"	n.	
1,2,3-Trichlorobenzene	n	ND		1.00			n		"	
1,2,4-Trichlorobenzene	W	ND		1.00			30	n	"	
1,1,1-Trichloroethane	и	ND		1.00					"	
1,1,2-Trichloroethane	H	ND		1.00				"	"	
Trichloroethene	W	ND		1.00			"	"	,,	
Trichlorofluoromethane	u	ND		1.00	**	"	"			
1,2,3-Trichloropropane	u	ND		1.00	"	"	9.		ju.	
1,2,4-Trimethylbenzene	n	1.12		1.00	"	"	u	"		
1,3,5-Trimethylbenzene		ND		1.00		"	••	"		
Vinyl chloride	"	ND		0.200		**	110	"	U	
o-Xylene	e e	ND	( minimum	1.00		<i>.</i>	113	"	"	
m,p-Xylene	н	ND		2.00	"	"	101	"	w	
Surrogate(s): Dibro	mofluoromethane		108%		62.9	9 - 131 %	"		"	
Toluer	ne-d8		98.4%			7 - 133 %	"		"	
4-broi	nofluorobenzene		101%		60.8	8 - 140 %	"		"	

TestAmerica - Spokane, WA

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Randee Decker, Project Manager

Cardwales





URS Corp.

920 N. Argonne Road Suite 300

Spokane, WA 99212

Project Name:

City Of Richland USC

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

# Semivolatile Petroleum Products by NWTPH-Dx - Laboratory Quality Control Results

TestAmerica - Spokane, WA

QC Batch: 7030042	Water P	reparation	Method: E	PA 3510/6	00 Series									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% (L RPD	imits) Analy	zed	Note
Blank (7030042-BLK1)								Extr	acted:	03/12/07 09:	:04			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	1x	1	1				03/13/07	04:29	
Heavy Oil Range Hydrocarbons	и	ND		0.500		"						"		
Surrogate(s): 2-FBP		Recovery:	95.6%	Lin	nits: 50-150%	"							07 04:29	
p-Terphenyl-d14			103%		50-150%	"						"		
Blank (7030042-BLK2)								Extr	acted:	03/12/07 09	:04			
Diesel Range Hydrocarbons	NWTPH-Dx	ND		0.250	mg/l	lx	-					03/13/07	05:02	
Heavy Oil Range Hydrocarbons	30	ND		0.500	"	"						"		
Surrogate(s): 2-FBP		Recovery:	100%	Lii	nits: 50-150%	"						03/13/	07 05:02	
p-Terphenyl-d14			106%		50-150%	"						"		
LCS (7030042-BS1)								Extr	acted:	03/12/07 09	:04			
Diesel Range Hydrocarbons	NWTPH-Dx	2.83		0.250	mg/l	1x		2.50	113%	(50-150)	-	03/14/07	12:17	
Surrogate(s): 2-FBP	7	Recovery:	107%	Lii	mits: 50-150%	"						03/14/	07 12:17	
p-Terphenyl-d14			110%		50-150%	"						"		
LCS (7030042-BS2)								Extr	acted:	03/12/07 09	:04			
Diesel Range Hydrocarbons	NWTPH-Dx	2.78		0.250	mg/l	lx			111%	(50-150)		03/14/07	12:52	
Surrogate(s): 2-FBP		Recovery:	100%	Li	mits: 50-150%	"						03/14/	07 12:52	
p-Terphenyl-d14		100010171	103%		50-150%	"						"		
										02/12/07 00				
LCS Dup (7030042-BSD1)										03/12/07 09		11.0) 02/14/07	12.26	
Diesel Range Hydrocarbons	NWTPH-Dx	2.84		0.250	mg/l	lx		2.50	114%	(50-150)	0.353% (1			
Surrogate(s): 2-FBP		Recovery:	104%	Li	mits: 50-150%	"						03/14/	07 13:26	
p-Terphenyl-d14			105%		50-150%									
Matrix Spike (7030042-MS	1)			QC Source	: SQC0025-01			Extr	acted:	03/12/07 09	:04			
Diesel Range Hydrocarbons	NWTPH-Dx	2.59		0.250	mg/l	lx	ND	2.44	106%	(70-130)		03/14/07	14:01	
Surrogate(s): 2-FBP		Recovery:	98.0%	Li	mits: 50-150%	"						03/14/	07 14:01	
p-Terphenyl-d14			99.0%		50-150%	"						п		
Matrix Spike Dup (7030042	-MSD1)			QC Source	: SQC0025-01			Extr	acted:	03/12/07 09	:04			
Diesel Range Hydrocarbons	NWTPH-Dx	2.70		0.250	mg/l	lx	ND	2.40	112%	(70-130)	4.16% (	(50) 03/14/07	14:35	
Surrogate(s): 2-FBP		Recovery:	104%	Li	mits: 50-150%	"						03/14/	07 14:35	
p-Terphenyl-d14		5	105%		50-150%	"						"		

TestAmerica - Spokane, WA

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Randee Decker, Project Manager

Cardwales





URS Corp.

Project Name:

City Of Richland USC

920 N. Argonne Road Suite 300

Project Number: Project Manager: 36298182 Dave Enos

Report Created: 03/16/07 09:43

Spokane, WA 99212

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

TestAmerica - Spokane, WA

QC Batch: 7030040	Water P	reparation M	ethod: GO	C/MS Vol	atiles									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7030040-BLK1)								Extr	acted:	03/09/07 11	:46			
Acetone	EPA 8260B	ND		25.0	ug/l	1x							03/09/07 11:55	
Benzene	"	ND		1.00	"	"			***				"	
Bromobenzene	"	ND		1.00	"	"							· v	
Bromochloromethane	11	ND		1.00		,,							"	
Bromodichloromethane	n.	ND		1.00		**							"	
Bromoform	"	ND		1.00	,"	"		-					"	
Bromomethane	"	ND		5.00	311	HE							ŭ	
2-Butanone	"	ND		10.0		"							"	
n-Butylbenzene	"	ND		1.00	"	11								
sec-Butylbenzene	n	ND		1.00	"	n								
tert-Butylbenzene	"	ND		1.00	"	"							"	
Carbon disulfide		ND		1.00		11							"	
Carbon tetrachloride		ND		1.00	"									
Chlorobenzene	37	ND		1.00		"	-						u ·	
Chloroethane		ND		1.00		"						74.		
Chloroform	"	ND		1.00	"	"			-				**	
Chloromethane	,,	ND		5.00	"	"							**	
2-Chlorotoluene		ND		1.00		**							m:	
4-Chlorotoluene	"	ND		1.00			-						"	
Dibromochloromethane		ND		1.00	100	**							n .	
1,2-Dibromo-3-chloropropane		ND		5.00	•									
1,2-Dibromoethane	n	ND		1.00									n:	
Dibromomethane	m m	ND		1.00	,,								9.	
1,2-Dichlorobenzene	n	ND		1.00									11	
1,3-Dichlorobenzene	"	ND		1.00										
1,4-Dichlorobenzene	ii .	ND		1.00						-				
Dichlorodifluoromethane	· u	ND		1.00										
1,1-Dichloroethane	"	ND		1.00		"								
1,2-Dichloroethane (EDC)		ND		1.00	.,								"	
		ND		1.00	in .	*							"	
1,1-Dichloroethene		ND		1.00	Ü	"							,,	
cis-1,2-Dichloroethene		ND		1.00	,					-				
trans-1,2-Dichloroethene	11	ND		1.00									n	
1,2-Dichloropropane	n n	ND		1.00	,,	"							"	
1,3-Dichloropropane				1.00		,,					-			
2,2-Dichloropropane		ND				"							"	
1,1-Dichloropropene		ND		1.00										
cis-1,3-Dichloropropene		ND		1.00									,	
trans-1,3-Dichloropropene	"	ND		1.00										
Ethylbenzene	"	ND		1.00		"								

TestAmerica - Spokane, WA

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URS Corp.

Project Name:

City Of Richland USC

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

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

TestAmerica - Spokane, WA

QC Batch: 7030040	Water P	reparation M	lethod: GC	C/MS Vol	atiles									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (7030040-BLK1)								Exti	acted:	03/09/07 11	:46			
Hexachlorobutadiene	EPA 8260B	ND		1.00	ug/l	lx							03/09/07 11:55	
2-Hexanone		ND		10.0	"	**							"	
Isopropylbenzene		ND		1.00	"	"		••					"	
p-Isopropyltoluene	n.	ND	•	1.00	n.	"							"	
Methylene chloride	<i>I</i> E	ND		10.0		"				-		==	"	
4-Methyl-2-pentanone	H.	ND		10.0		"							n.	
Methyl tert-butyl ether		ND		1.00		u.							"	
Naphthalene		ND		2.00	"	"								
n-Propylbenzene		ND		1.00	**	"							"	
Styrene	**	ND		1.00	**	"				,				
1,1,1,2-Tetrachloroethane	"	ND		1.00	"					-			"	
1,1,2,2-Tetrachloroethane	u	ND		1.00		91							u.	
Tetrachloroethene		ND		1.00		"								
Toluene		ND	242	1.00	"					-			"	
,2,3-Trichlorobenzene		ND		1.00	.11:	**							Ü	
1,2,4-Trichlorobenzene		ND		1.00	"						-		"	
1,1,1-Trichloroethane		ND		1.00	"	"							"	
1,1,2-Trichloroethane		ND		1.00	"	"							**	
Trichloroethene		ND		1.00	п	,,					-			
Trichlorofluoromethane		ND		1.00	"								n	
1,2,3-Trichloropropane		ND		1.00	н									
1,2,4-Trimethylbenzene		ND		1.00			_						**	
1,3,5-Trimethylbenzene		ND	***	1.00		"				**			**	
Vinyl chloride		ND		0.200		"							"	
o-Xylene		ND		1.00		"							"	
m,p-Xylene		ND		2.00	н	"							"	
Surrogate(s): Dibromofluorometh	ane	Recovery: 9	9.9%	Limit	ts: 62.9-131%	"							03/09/07 11:5	5
Toluene-d8		100	102%		58.7-133%	"							"	
4-bromofluorobenze	ene		105%		60.8-140%	111							"	

TestAmerica - Spokane, WA

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SPOKANE, WA

11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Project Name:

City Of Richland USC

920 N. Argonne Road Suite 300 Spokane, WA 99212 Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

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

TestAmerica - Spokane, WA

QC Batcl	1: 7030040	Water P	reparation	Method: G	C/MS Vola	tiles									
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
LCS (7030040	-BS1)								Extr	acted:	03/09/07 11:	46			
Benzene		EPA 8260B	10.2		1.00	ug/l	1x		10.0	102%	(70-130)		(	03/09/07 12:24	
Chlorobenzene		"	9.35		1.00		"			93.5%	(68.3-123)				
1,1-Dichloroethene			10.3		1.00		"		"	103%	(67-137)			n	
Toluene		n.	9.45		1.00	"	"		"	94.5%	(68.8-139)	**		н	
Trichloroethene		m .	9.88		1.00	"		-		98.8%	(68.1-128)			"	
Surrogate(s):	Dibromofluoromethane		Recovery:	106%	Limits:	62.9-131%	"							03/09/07 12:24	
	Toluene-d8			99.8%		58.7-133%	"							"	
	4-bromofluorobenzene			105%		60.8-140%	"							"	
Matrix Spike	(7030040-MS1)				QC Source:	SQC0025-01			Extr	acted:	03/09/07 11:	:46			
Benzene		EPA 8260B	10.7		1.00	ug/l	lx	ND	10.0	107%	(59.7-129)			03/09/07 13:21	
Chlorobenzene			9.95		1.00		u	ND	"	99.5%	(75.8-121)			**	
1,1-Dichloroethene			11.3		1.00	"		ND	"	113%	(63.8-137)			п	
<b>Foluene</b>			10.0		1.00	"		ND	n	100%	(84.5-127)		-	*	
'richloroethene		"	10.7		1.00		"	ND	"	107%	(75.5-129)			"	
Surrogate(s):	Dibromofluoromethane		Recovery:	107%	Limits:	62.9-131%	"							03/09/07 13:21	
	Toluene-d8			97.0%		58.7-133%	"							"	
	4-bromofluorobenzene			103%		60.8-140%	"							"	
Matrix Spike D	Oup (7030040-MSD	01)			QC Source:	SQC0025-01			Exti	acted:	03/09/07 11:	:46			
Benzene		EPA 8260B	11.4		1.00	ug/l	1x	ND	10.0	114%	(59.7-129)	6.33%	6 (10)	03/09/07 13:50	
Chlorobenzene			10.2		1.00	n	"	ND		102%	(75.8-121)	2.48%	6 (11)		
1,1-Dichloroethene		"	11.4	***	1.00	**	"	ND		114%	(63.8-137)	0.8819	% (14)		
Toluene		11	10.4		1.00	"	"	ND		104%	(84.5-127)	3.92%	6 (12)	"	
Trichloroethene		n	10.9		1.00	**	н	ND		109%	(75.5-129)	1.85%	(10)	ű.	
Surrogate(s):	Dibromofluoromethane		Recovery:	111%	Limits	62.9-131%	"							03/09/07 13:50	
	Toluene-d8			98.0%		58.7-133%	"								
	4-bromofluorobenzene			103%		60.8-140%	"							"	

TestAmerica - Spokane, WA

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SPOKANE, WA

11922 E. 1ST AVENUE SPOKANE VALLEY, WA 99206-5302 ph: (509) 924.9200 fax: (509) 924.9290

URS Corp.

Project Name:

City Of Richland USC

920 N. Argonne Road Suite 300 Spokane, WA 99212

Project Number: Project Manager: 36298182 Dave Enos Report Created:

03/16/07 09:43

#### **Notes and Definitions**

#### Report Specific Notes:

None

DET

Dil

Signature

#### Laboratory Reporting Conventions:

Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.

Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate). ND

NR/NA \_ Not Reported / Not Available

Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight. dry

Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported wet

on a Wet Weight Basis.

RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries). **RPD** 

MRL METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. MDL\* \*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.

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 -Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and Limits percent solids, where applicable.

Electronic Signature added in accordance with TestAmerica's Electronic Reporting and Electronic Signatures Policy. Electronic 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 - Spokane, WA

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