Tosco 6380
Bellingham
LUST 471259

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Quarterly Groundwater Monitoring Report - Second Quarter 2009
ConocoPhillips Service Station No. 256380 (RM&R #1571)
Washington Department of Ecology Voluntary Cleanup Program ID #NW1487
200 South 36th Street
Bellingham, Washington 98225

Stantec Project No.:
212301495

Submitted to:
Mr. Mark Adams
Washington State Department of Ecology
3190 160th Avenue SE
Bellevue, WA 98008-5452

Submitted by:
Stantec Consulting Corporation
12034 134th Court NE, Suite 102
Redmond, WA 98052

Prepared on behalf of:
ConocoPhillips Company

July 29, 2009

Dear Mr. Adams:

Stantec Consulting Corporation (Stantec) is pleased to present this quarterly groundwater monitoring report to the Washington State Department of Ecology (DOE) Voluntary Cleanup Program (VCP) on behalf of the ConocoPhillips Company (ConocoPhillips). This report describes the results of groundwater monitoring activities performed by Stantec during the second quarter of 2009 (the reporting period) at ConocoPhillips Facility No. 256380 (RM&R #1571; DOE VCP #NW1487) located at 200 South 36th Street in Bellingham, Washington (the Site).

GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities during the reporting period were performed on June 16 and 17, 2009. Groundwater monitoring activities were performed in accordance with Stantec's protocols for groundwater monitoring events (see Appendix A).

Eight of the existing groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) were gauged and sampled. These activities are described below.

Monitoring Well Gauging

Eight groundwater monitoring wells were gauged: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6 MW-7, and MW-8. Monitoring wells were gauged for the presence of liquid phase hydrocarbons (LPH) and depth to groundwater prior to purging and sampling. LPH was not measured in the groundwater monitoring wells at thicknesses greater than or equal to 0.01 foot. The depth to groundwater ranged from 4.80 feet (MW-5) to 8.53 feet (MW-2) below the top of casing (TOC). Depth to groundwater data was used to calculate the groundwater elevation in each well and evaluate the groundwater flow direction and gradient. Historical groundwater gauging data and gauging data from the reporting period are summarized in Table 1. Well locations and groundwater flow direction are shown on Figure 1. Based on these data, the water table at the Site exhibits an elevation ridge that transects north-south along in the center of the Site. Based on observations during wells repairs conducted at the Site on July 20, 2009, it appears that the TOC elevations for MW-3 and/or MW-5 are incorrect. The elevations of groundwater monitoring wells at the Site should be resurveyed in order to determine the correct TOC elevations. Water table elevations for MW-3 and MW-5 were not included in the groundwater elevation contouring shown on Figure 1. Groundwater flow directions appear to be radial to the west and east at approximate gradients of 0.1 and 0.02 feet per foot (ft/ft), respectively.

Monitoring Well Purging

Wells intended to be sampled were purged after gauging. Groundwater was purged from the wells using low-flow methods, which included using a peristaltic pump and dedicated polyethylene tubing. Water quality parameters were measured during purging and recorded on field data sheets (Appendix B). Purged groundwater and rinsate/decontamination water were stored at the Site in a Department of Transportation (DOT)-approved, steel drum pending laboratory characterization and offsite disposal.

Monitoring Well Sampling

Following purging operations, groundwater samples were collected using a peristaltic pump and placed directly into pre-cleaned sample containers provided by a certified laboratory.

Once the sample containers were filled and sealed, they were labeled with the pertinent sampling information, and placed on ice in an insulated cooler for delivery under chain-of-custody documentation to an independent laboratory.

CHEMICAL ANALYSES AND RESULTS

Chemical Analyses

Groundwater samples collected during the reporting period were submitted to Pace Analytical Services, Inc. (Pace) in Seattle, Washington for the following chemical analyses:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tert-butyl ether (MTBE), and 1,2-Dichloroethane (EDC) using Environmental Protection Agency (EPA) Method 8260B;
- 1,2-Dibromoethane (EDB) by EPA Method 8011;
- Total petroleum hydrocarbons (TPH) as gasoline (TPH-G) using DOE Northwest Method NWTPH-Gx;
- TPH as diesel (TPH-D) and TPH as oil (TPH-O) using DOE Northwest Method NWTPH-Dx with silica gal/acid cleanup; and
- Total and dissolved lead by EPA Method 6020.

Chemical analyses results are described below. A copy of the certified laboratory analytical report and chain-of-custody documentation are included in Appendix C.

Chemical Analyses Results

Historical chemical analyses results and those from the reporting period are summarized in Table 1. Analytical results for TPH-G, TPH-D, TPH-O, BTEX, MTBE, and total and dissolved lead are included on Figure 2 for the reporting period and the three previous reporting periods.

Concentrations of TPH-G, TPH-D, TPH-O, BTEX, MTBE, EDB, EDC, and total and dissolved lead did not exceed their respective Model Toxics Control Act (MTCA) Method A cleanup level in any of the eight groundwater monitoring wells sampled during the reporting period. Analytical results did not exceed MTCA Method A cleanup levels for any of the analyses performed for the third consecutive quarter.

Laboratory Quality Assurance/Quality Control (QA/QC)

A copy of the analytical report for the samples collected during the reporting period is included in Appendix C. Please refer to the analytical report for a description of QA/QC methods and potential concerns that were identified during chemical analysis. Potential QA/QC concerns identified in the analytical report are noted on pages 15 and 20.

WASTE DISPOSAL

Purge and rinsate water generated during the monitoring and sampling event were temporarily stored on Site in a labeled, DOT-approved, steel drum. The drum and its contents will be transported off-Site to a licensed disposal or recycling facility approved by ConocoPhillips. A copy of the signed waste manifest or other disposal documentation will be provided under a separate cover.

CONCLUSIONS

Concentrations of TPH-G, TPH-D, TPH-O, BTEX, MTBE, EDB, EDC, and total and dissolved lead did not exceed their respective MTCA Method A cleanup level in any of the eight groundwater monitoring wells sampled during the reporting period. Analytical results did not exceed MTCA Method A cleanup levels for any of the analyses performed for the third consecutive quarter.

LIMITATIONS AND CERTIFICATIONS

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this work plan was prepared and applicable to the location of the Site. It was prepared for the exclusive use of ConocoPhillips Company for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the Site existing at the time of the field investigations. No other warranties, expressed or implied are made by Stantec.

Prepared by:

Tammy Parise
Staff Scientist

Reviewed by:

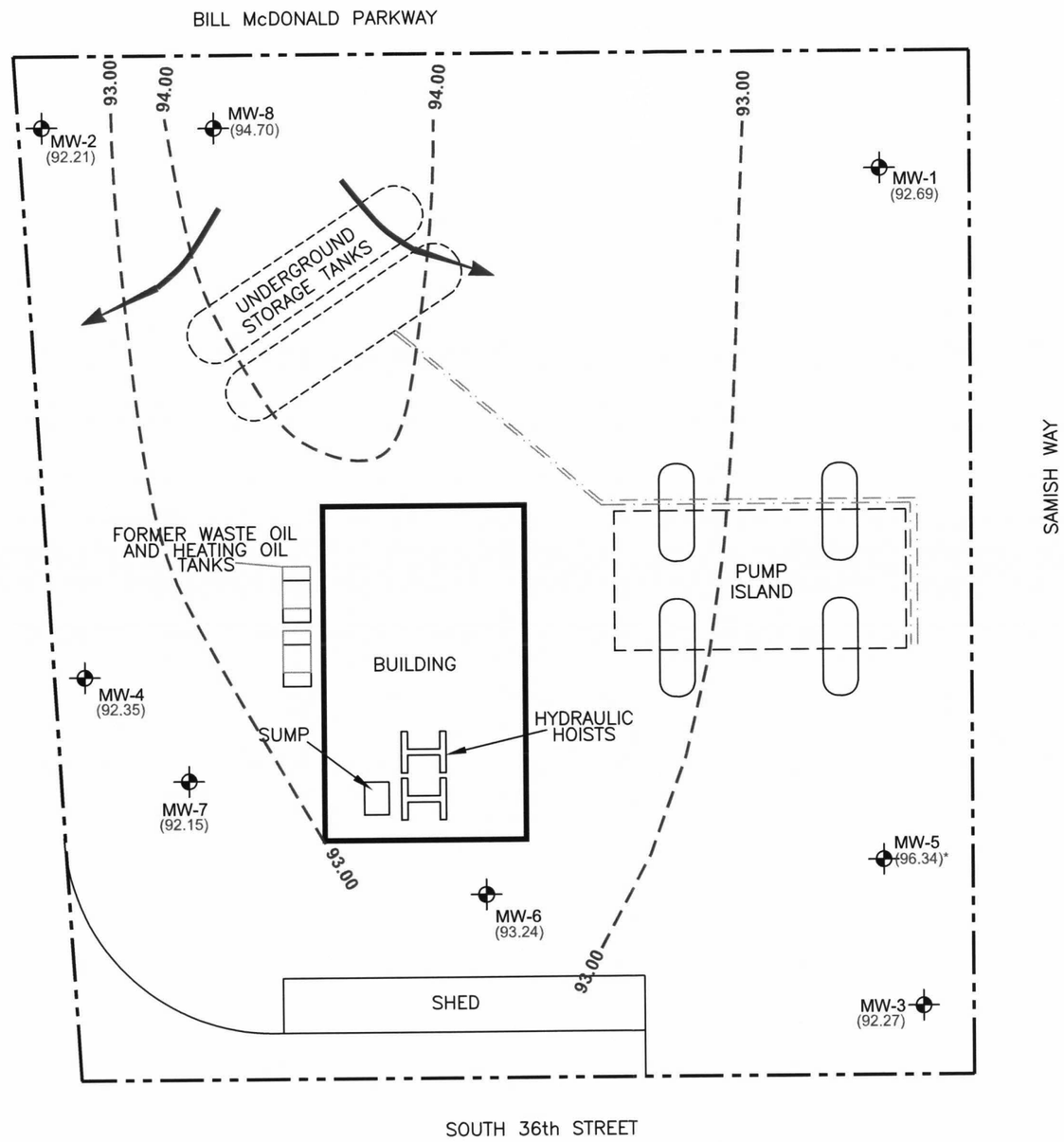
Jeffrey S. Thompson, L.G., L.E.G.
Principal Geologist

State of Washington
Licensed Geologist
688
JEFFREY S. THOMPSON

ATTACHMENTS

Table 1	Historical Groundwater Elevations and Sample Analytical Results
Figure 1	Site Plan with Groundwater Elevations (June 16, 2009)
Figure 2	Site Plan with Analytical Results (June 16 and 17, 2009)
Appendix A	Field and Laboratory Procedures
Appendix B	Field Data Sheets
Appendix C	Certified Laboratory Analytical Report and Chain-of-Custody Documentation

FIGURES



LEGEND

- MONITORING WELL LOCATION
- SITE BOUNDARY

GROUNDWATER

- (92.69) GROUNDWATER ELEVATION (FEET)
- INFERRED GROUNDWATER FLOW DIRECTION
- 94.00 GROUNDWATER ELEVATION CONTOUR (FEET)
- * WELL MW-5 NOT USED IN CONTOURING

NOTES:

1). ALL LOCATIONS ARE APPROXIMATE.

2). CONTOUR INTERVAL = 1.00 FEET

North

0 20 40

APPROXIMATE SCALE (FEET)

SOURCE:
BASE MAP FROM; ENVIRONMENTAL RESOLUTIONS, INC. (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP– 06/10/03, PLATE 1, DATED 07/08/03, PROJECT NO. 31065. CADD FILE 31065.13.DWG

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FOR: ConocoPhillips
FACILITY NO. 256380 (RM&R 1571)
200 SOUTH 36th STREET
BELLINGHAM, WASHINGTON

SITE PLAN WITH GROUNDWATER ELEVATIONS (JUNE 16, 2009)

FIGURE: 1

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212301495 (01571)	DJH	TP	JT	7/13/09

FILEPATH:K:\1-CLIENTS\ConocoPhillips\01CP\1571-Bellingham(6380)-212301495\2Q09\6380-2009-2Q.dwg|dheller|Aug 18, 2009 at 15:04|Layout: F1-GWE (2Q09)

MW-8	9/10/08	12/10/08	3/31/09	6/17/09
TPH-G	<50	<50	<50.0	<50.0
TPH-D	<79	<29	<82	<78
TPH-O	<99	180	<410	<390
B	<0.5	<0.5	<1.0	<1.0
T	<0.7	<0.7	<1.0	<1.0
E	<0.8	<0.8	<1.0	<1.0
X	<0.8	<0.8	<1.0	<3.0
MTBE	<0.5	--	<1.0	<1.0
T. Pb	--	--	--	1.3
D. Pb	--	--	--	<1.0

MW-2	9/10/08	12/10/08	3/31/09	6/17/09
TPH-G	<50	--	<50	<50.0
TPH-D	<78	--	<800	<78
TPH-O	<97	--	<1,000	<390
B	<0.5	--	<0.5	<1.0
T	<0.7	--	<0.7	<1.0
E	<0.8	--	<0.8	<1.0
X	<0.8	--	<0.8	<3.0
MTBE	<0.5	--	<0.5	<1.0
T. Pb	--	--	--	<1.0
D. Pb	--	--	--	<1.0

MW-1	9/10/08	12/10/08	3/31/09	6/17/09
TPH-G	<50	<50	<50.0	<50.0
TPH-D	<77	<29	<83	<78
TPH-O	<96	<69	<420	<390
B	<0.5	<0.5	<1.0	<1.0
T	<0.7	<0.7	<1.0	<1.0
E	<0.8	<0.8	<1.0	<1.0
X	<0.8	<0.8	<1.0	<3.0
MTBE	1	--	<1.0	<1.0
T. Pb	--	--	--	<1.0
D. Pb	--	--	--	<1.0

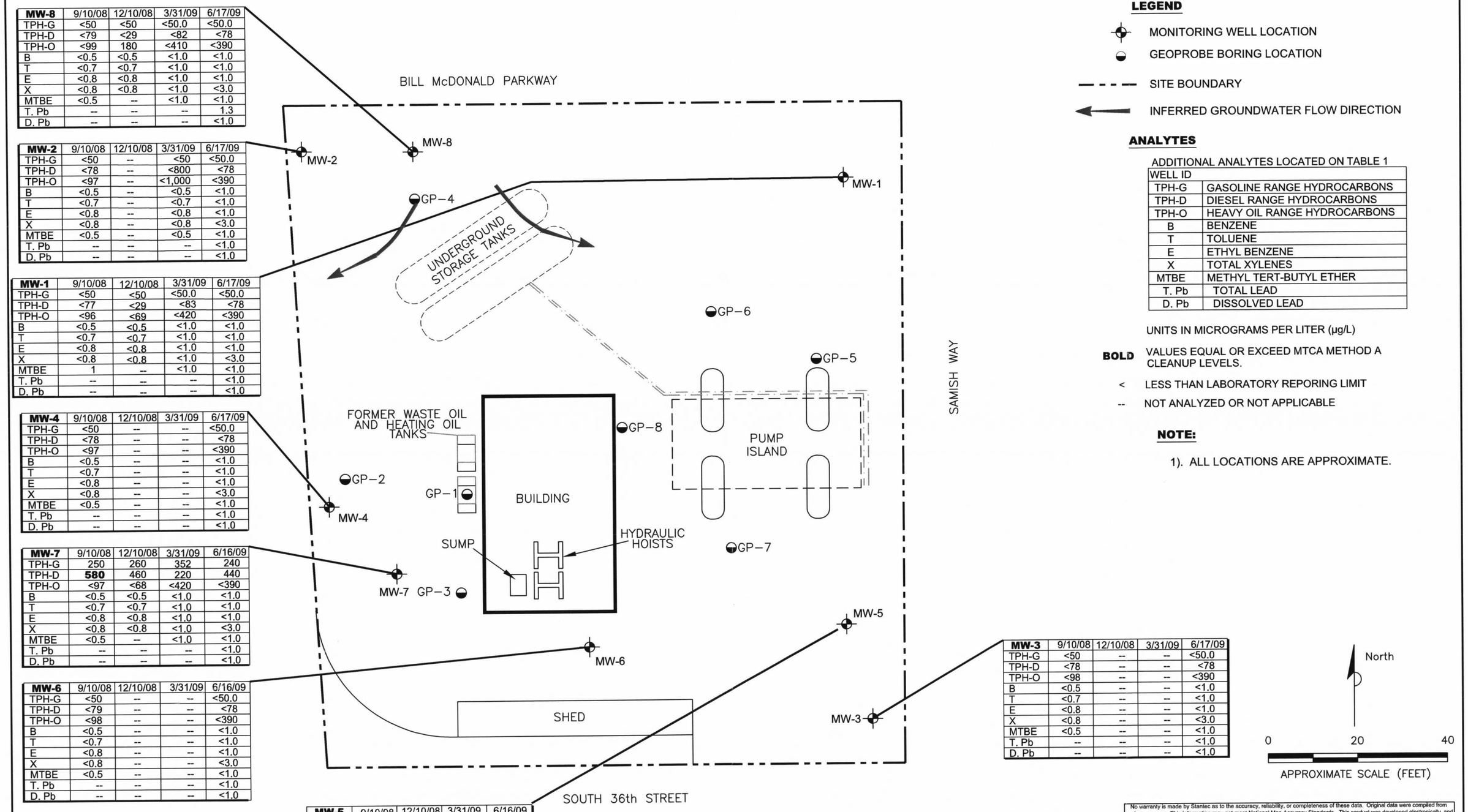
MW-4	9/10/08	12/10/08	3/31/09	6/17/09
TPH-G	<50	--	--	<50.0
TPH-D	<78	--	--	<78
TPH-O	<97	--	--	<390
B	<0.5	--	--	<1.0
T	<0.7	--	--	<1.0
E	<0.8	--	--	<1.0
X	<0.8	--	--	<3.0
MTBE	<0.5	--	--	<1.0
T. Pb	--	--	--	<1.0
D. Pb	--	--	--	<1.0

MW-7	9/10/08	12/10/08	3/31/09	6/16/09
TPH-G	250	260	352	240
TPH-D	**580**	460	220	440
TPH-O	<97	<68	<420	<390
B	<0.5	<0.5	<1.0	<1.0
T	<0.7	<0.7	<1.0	<1.0
E	<0.8	<0.8	<1.0	<1.0
X	<0.8	<0.8	<1.0	<3.0
MTBE	<0.5	--	<1.0	<1.0
T. Pb	--	--	--	<1.0
D. Pb	--	--	--	<1.0

MW-6	9/10/08	12/10/08	3/31/09	6/16/09
TPH-G	<50	--	--	<50.0
TPH-D	<79	--	--	<78
TPH-O	<98	--	--	<390
B	<0.5	--	--	<1.0
T	<0.7	--	--	<1.0
E	<0.8	--	--	<1.0
X	<0.8	--	--	<3.0
MTBE	<0.5	--	--	<1.0
T. Pb	--	--	--	<1.0
D. Pb	--	--	--	<1.0

MW-5	9/10/08	12/10/08	3/31/09	6/16/09
TPH-G	<50	--	--	<50.0
TPH-D	<78	--	--	<78
TPH-O	<98	--	--	<390
B	<0.5	--	--	<1.0
T	<0.7	--	--	<1.0
E	<0.8	--	--	<1.0
X	<0.8	--	--	<3.0
MTBE	<0.5	--	--	<1.0
T. Pb	--	--	--	<1.0
D. Pb	--	--	--	<1.0

MW-3	9/10/08	12/10/08	3/31/09	6/17/09
TPH-G	<50	--	--	<50.0
TPH-D	<78	--	--	<78
TPH-O	<98	--	--	<390
B	<0.5	--	--	<1.0
T	<0.7	--	--	<1.0
E	<0.8	--	--	<1.0
X	<0.8	--	--	<3.0
MTBE	<0.5	--	--	<1.0
T. Pb	--	--	--	<1.0
D. Pb	--	--	--	<1.0



LEGEND

- MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- SITE BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION

ANALYTES

ADDITIONAL ANALYTES LOCATED ON TABLE 1

WELL ID	
TPH-G	GASOLINE RANGE HYDROCARBONS
TPH-D	DIESEL RANGE HYDROCARBONS
TPH-O	HEAVY OIL RANGE HYDROCARBONS
B	BENZENE
T	TOLUENE
E	ETHYL BENZENE
X	TOTAL XYLENES
MTBE	METHYL TERT-BUTYL ETHER
T. Pb	TOTAL LEAD
D. Pb	DISSOLVED LEAD

UNITS IN MICROGRAMS PER LITER (µg/L)

BOLD VALUES EQUAL OR EXCEED MTCA METHOD A CLEANUP LEVELS.

< LESS THAN LABORATORY REPORING LIMIT

-- NOT ANALYZED OR NOT APPLICABLE

NOTE:

1). ALL LOCATIONS ARE APPROXIMATE.

North

0 20 40

APPROXIMATE SCALE (FEET)

SOURCE:
BASE MAP FROM; ENVIRONMENTAL RESOLUTIONS, INC. (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP- 06/10/03, PLATE 1, DATED 07/08/03, PROJECT NO. 31065. CADD FILE 31065.13.DWG

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FOR: ConocoPhillips
FACILITY NO. 256380 (RM&R 1571)
200 SOUTH 36th STREET
BELLINGHAM, WASHINGTON

SITE PLAN WITH ANALYTICAL RESULTS (JUNE 16 & 17, 2009)

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212301495 (01571)	DJH	TP	JT	7/13/09

FILEPATH:K:\1-CLIENTS\ConocoPhillips\01CP\1571-Bellingham(6380)-212301495\2Q09\6380-2009-2Q.dwg|dheller|Jul 21, 2009 at 19:25|Layout: F2-GWA (2Q09)

TABLE

TABLE 1
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 256380
200 South 36th Street
Bellingham, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW1	03/11/99	4.96	--	93.53	<50	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	2.41	--
98.49	05/25/99	5.33	--	93.16	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	---	--	--	--	--
	08/12/99	6.66	--	91.83	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	12/07/99	6.10	--	92.39	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	6.18	--
	02/10/00	6.10	--	92.39	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	1.75	--
	02/02/01	5.17	--	93.32	<50.0	588	<750[e]	**12.4**	1.02	1.10	2.77	--	--	--	--	<1.00
	02/08/02	5.77	--	92.72	**838**	**1,600**	<500	**128**	2.15	85.4	6.55	--	--	--	7.70	<1.00
	09/20/02	6.27	--	92.22	197	**1,320**	<588[e]	1.82	<0.500	33.0	<1.00	--	--	--	<1.00	--
	12/04/02	7.05	--	91.44	373	511	<568[e]	**106**	1.32	1.39	5.41	--	--	--	4.65	--
	03/05/03	5.70	--	92.79	168	<250	<500	**28.3**	1.70	3.55	5.87	--	--	--	4.90	--
	06/10/03	5.92	--	92.57	400	<250	<500	**36.9**	2.43	30.5	6.97	--	--	--	**17.1**	--
	09/03/03	6.30	--	92.19	258	301	<588[e]	1.91	3.22	4.30	5.25	--	--	--	8.72	--
	12/12/03	5.530	--	92.960	204	**700**	304	2.45	<0.500	<0.500	<1.500	--	--	--	<5.0	--
	03/24/04	6.11	--	92.38	163	<126	<251	**12.6**	<1.00	<1.00	<3.00	--	--	--	14.6	--
	6/17/2004	5.10	--	93.39	<50.0	<118	<237	4.98	<0.500	<0.500	<1.50	--	--	--	--	<10.0
	9/23/2004	5.28	--	93.21	190	<267	<535[e]	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	5.42	--	93.07	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	5.73	--	92.76	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	6.10	--	92.39	<100	<236	<472	<1	<1	<1	<3	1.26	--	--	--	<15
	09/15/05	6.60	--	91.89	<48	<160	<200	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/05	5.94	--	92.55	<48	170	110	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	03/10/06	5.34	--	93.15	<48	<76	<95	0.6	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	8.88	--	89.61	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	1.3	--	--	--	--
	03/07/07	UNABLE TO GAUGE OR SAMPLE;PUBLIC WORKS TRUCKS PARKED OVER WELL.														
	06/01/07	5.47	--	93.02	<50	--	--	<0.5	<0.7	<0.8	<0.8	1.0	--	--	--	--
	09/06/07	6.01	--	92.48	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	0.5	--	--	--	--
	12/03/07	6.63	--	91.86	<50	<400[c]	<500[c]	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--
	03/05/08	5.34	--	93.15	<50[d]	<800[c,e]	<1,000[c,e]	**11**	<0.7	<0.8	<0.8	1	--	--	--	--
	06/11/08	5.34	0.00	93.15	<50	<800[b,c,e]	<1,000[b,c,e]	**10**	<0.5	<0.5	<0.5	1	--	--	--	--
	09/10/08	5.30	0.00	93.19	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	1	--	--	--	--
	12/10/08	5.62	0.00	92.87	<50	<29	<69	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--
	03/31/09	5.55	0.00	92.94	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--
	06/17/09	5.80	0.00	92.69	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0

TABLE 1
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 256380
200 South 36th Street
Bellingham, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW2	03/11/99	7.93	--	92.81	<50	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	**162**	--
100.74	05/25/99	8.18	--	92.56	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	08/12/99	8.94	--	91.80	<50.0	281	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	12/07/99	8.04	--	92.70	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	**17.0**	--
	02/10/00	8.32	--	92.42	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	**49.1**	--
	02/02/01	6.40	--	94.34	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	<1.00
	02/08/02	7.77	--	92.97	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	**40.6**	<1.00
	09/20/02	9.23	--	91.51	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--
	12/04/02	9.15	--	91.59	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	2.89	--
	03/05/03	8.28	--	92.46	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	**19.8**	--
	06/10/03	8.56	--	92.18	<50.0	<284	<568[e]	<0.500	1.36	<0.500	2.53	--	--	--	**40.1**	--
	09/03/03	9.13	--	91.61	<80.0	<298	<595[e]	0.829	1.25	0.519	2.49	--	--	--	**33.3**	--
	12/12/03	8.120	--	92.62	<50.0	<119	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--
	03/24/04	8.13	--	92.61	<100	<124	<248	<1.00	<1.00	<1.00	<3.00	--	--	--	**21.3**	
	6/17/2004	8.13	--	92.61	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	--	--	--	--	<10.0
	9/23/2004	8.33	--	92.41	<50	<271	<542[e]	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	7.82	--	92.92	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	8.34	--	92.40	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	8.66	--	92.08	<100	<238	<475	<1	<1	<1	<3	<1	--	--	--	<15
	9/15/2005	5.40	--	95.34	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/2005	8.44	--	92.30	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	3/10/2006	8.28	--	92.46	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	8.71	--	92.03	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--
	03/07/07	7.80	--	92.94	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	8.38	--	92.36	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	9.06	--	91.68	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	6.69	--	94.05	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	8.05	--	92.69	<50	<800[c,e]	<1,000[c,e]	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	8.25	0.00	92.49	<50	<76[b]	<95[b]	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	8.80	0.00	91.94	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	Removed from sampling event this quarter.			--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	7.90	0.00	92.84	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/09	8.53	0.00	92.21	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0

TABLE 1
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 256380
200 South 36th Street
Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation		Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW3	03/11/99	4.93	--	92.91	<50	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	6.35	--
97.84	05/25/99	5.19	--	92.65	210	383	<750[e]	<0.500	<0.500	3.04	3.93	--	--	--	--	--
	08/12/99	5.70	--	92.14	56.3	<250	<750[e]	<0.500	<0.500	0.732	1.84	--	--	--	--	--
	12/07/99	5.03	--	92.81	94.7	<250	<750[e]	<0.500	0.598	<0.500	<1.00	--	--	--	4.40	--
	02/10/00	4.92	--	92.92	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	**17.6**	--
	02/02/01	4.76	--	93.08	63.0	413	<750[e]	<0.500	<0.500	0.503	<1.00	--	--	--	--	<1.00
	02/08/02	4.59	--	93.25	91.5	410	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	**22.3**	<1.00
	09/20/02	5.88	--	91.96	129	372	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--
	12/04/02	5.26	--	92.58	147	371	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	4.60	--
	03/05/03	4.70	--	93.14	62.2	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	12.5	--
	06/10/03	5.31	--	92.53	<50.0	<250	<500	<0.500	0.562	<0.500	<1.00	--	--	--	6.90	--
	09/03/03	5.66	--	92.18	<80.0	<250	<500	2.12	0.753	<0.500	<1.00	--	--	--	<1.00	--
	12/12/03	4.785	--	93.06	<50.0	<119	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--
	03/24/04	4.81	--	93.03	<100	<128	<256	<1.00	<1.00	<1.00	<3.00	--	--	--	**20.0**	--
	6/17/2004	4.97	--	92.87	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	--	--	--	--	<10.0
	9/23/2004	5.03	--	92.81	140	<255	<509[e]	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	4.53	--	93.31	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	5.02	--	92.82	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	5.25	--	92.59	<100	<238	<475	<1	<1	<1	<3	<1	--	--	--	<15
	9/15/2005	7.20	--	90.64	<48	<75	<93	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/2005	5.09	--	92.75	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	3/10/2006	4.75	--	93.09	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	5.40	--	92.44	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--
	03/07/07	4.42	--	93.42	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	4.94	--	92.90	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	5.43	--	92.41	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	4.70	--	93.14	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	4.89	--	92.95	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	5.11	0.00	92.73	<50	100[b]	**560**[b]	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	5.30	0.00	92.54	<50	<78	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	Removed from sampling event this quarter.				--	--	--	--	--	--	--	--	--	--	--
	03/31/09	4.90	0.00	92.94	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/09	5.57	0.00	92.27	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0

TABLE 1
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 256380
200 South 36th Street
Bellingham, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW4	03/11/99	6.39	--	93.05	<50	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	**29.0**	--
99.44	05/25/99	6.62	--	92.82	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	08/12/99	7.31	--	92.13	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	12/07/99	6.37	--	93.07	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	10.2	--
	02/10/00	6.48	--	92.96	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	**23.6**	--
	02/02/01	6.37	--	93.07	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	<1.00
	02/08/02	6.03	--	93.41	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	3.30	<1.00
	09/20/02	7.37	--	92.07	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--
	12/04/02	7.03	--	92.41	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--
	03/05/03	6.33	--	93.11	<50.0	<284	<568[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	6.81	--
	06/10/03	6.99	--	92.45	<50.0	<250	<500	<0.500	0.687	<0.500	1.26	--	--	--	10.5	--
	09/03/03	7.60	--	91.84	<80.0	<312	<625[e]	0.620	<0.500	<0.500	<1.00	--	--	--	2.75	--
	12/12/03	6.485	--	92.96	<50.0	<118	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--
	03/24/04	6.54	--	92.90	<100	<133	<265	<1.00	<1.00	<1.00	<3.00	--	--	--	<5.0	--
	6/17/2004	5.91	--	93.53	<50.0	<119	<237	<0.250	<0.500	<0.500	<1.50	--	--	--	--	<10.0
	9/23/2004	6.52	--	92.92	<50	<259	<518[e]	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	6.14	--	93.30	<100	<240	<480	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	6.65	--	92.79	<100	<240	<481	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	6.91	--	92.53	<100	<237	<473	<1	<1	<1	<3	<1	--	--	--	<15
	9/15/2005	6.10	--	93.34	<48	150	<93	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/2005	6.73	--	92.71	<48	180	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	3/10/2006	6.28	--	93.16	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/03/06	6.80	--	92.64	<48	130	<95	<0.2	<0.2	<0.2	<0.6	0.8	--	--	--	--
	03/07/07	5.81	--	93.63	<48	83	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	6.60	--	92.84	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	7.12	--	92.32	<50	170	<95	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--
	12/03/07	6.00	--	93.44	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	6.17	--	93.27	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	6.02	0.00	93.42	<50	<75[b]	<94[b]	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	6.85	0.00	92.59	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	Removed from sampling event this quarter.				--	--	--	--	--	--	--	--	--	--	--
	03/31/09	6.17	0.00	93.27	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/09	7.09	0.00	92.35	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0

TABLE 1
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 256380
200 South 36th Street
Bellingham, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW-5	1/11/2006	4.04	--	97.10	<48	<75	<94	1.7	<0.2	<0.2	<0.6	--	--	--	<8.4	--
101.14	3/10/2006	3.81	--	97.33	65	<75	<94	**13**	0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	4.46	--	96.68	57	<76	<95	8.6	<0.2	<0.2	<0.6	<5.0	--	--	--	--
	03/07/07	3.48	--	97.66	<48	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	4.10	--	97.04	<50	--	--	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--
	09/06/07	4.43	--	96.71	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	4.64	--	96.50	<50	99	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	4.36	--	96.78	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	4.21	0.00	96.93	<50	91	<94	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	4.30	0.00	96.84	<50	<78	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	Removed from sampling event this quarter.				--	--	--	--	--	--	--	--	--	--	--
	03/31/09	4.45	0.00	96.69	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/09	4.80	0.00	96.34	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
MW-6	1/11/2006	4.89	--	94.85	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	<8.4	--
99.74	3/10/2006	5.47	--	94.27	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	6.50	--	93.24	<48	<80	<100	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--
	03/07/07	5.08	--	94.66	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/10/07	5.73	--	94.01	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	6.22	--	93.52	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	5.46	--	94.28	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	5.46	--	94.28	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	5.39	0.00	94.35	<50	<76	250	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	5.95	0.00	93.79	<50	<79	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	Removed from sampling event this quarter.				--	--	--	--	--	--	--	--	--	--	--
	03/31/09	5.75	0.00	93.99	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/09	6.50	0.00	93.24	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
MW-7	1/11/2006	6.07	--	93.57	160	**780**[b]	<94[b]	<0.2	<0.2	<0.2	<0.6	2.5	--	--	<8.4	--
99.64	3/10/2006	6.71	--	92.93	140	**540**	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	7.31	--	92.33	190	1,000	<480	0.2	<0.2	<0.2	<0.6	2	--	--	--	--
	03/07/07	6.00	--	93.64	340	**870**	<94	<0.5	<0.7	<0.8	<0.8	0.7	--	--	--	--
	06/01/07	6.99	--	92.65	210	--	--	<0.5	<0.7	<0.8	<0.8	0.8	--	--	--	--
	09/06/07	7.47	--	92.17	250	**1,000**	160	<0.5	<0.7	<0.8	<0.8	0.8	--	--	--	--
	12/03/07	4.97	--	94.67	400	**970**	140	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	6.47	--	93.17	240	**930**	100	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	6.13	0.00	93.51	240	**1,300**	**860**	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	7.20	0.00	92.44	250	**580**	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	6.88	0.00	92.76	260	460	<68	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--
	03/31/09	6.62	0.00	93.02	352	220	<420	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--

TABLE 1
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 256380
200 South 36th Street
Bellingham, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
	06/16/09	7.49	0.00	92.15	240	440	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0

TABLE 1
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 256380
200 South 36th Street
Bellingham, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW-8	1/11/2006	7.00	--	95.70	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	<8.4	--
102.7	3/10/2006	7.50	--	95.20	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	7.97	--	94.73	<48	<77	<96	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--
	03/07/07	6.93	--	95.77	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	7.77	--	94.93	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	8.45	--	94.25	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	7.51	--	95.19	<50	<76	290	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	7.30	--	95.40	<50	<150	**860**	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	7.22	0.00	95.48	<50[d]	240	**1,000**	<0.5[d]	0.7[d]	<0.5[d]	<0.5[d]	<0.5[d]	--	--	--	--
	09/10/08	8.20	0.00	94.50	<50	<79	<99	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	7.55	0.00	95.15	<50	<29	180	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--
	03/31/09	7.10	0.00	95.60	<50.0	<82	<410	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--
	06/17/09	8.00	0.00	94.70	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	2.8	<0.010	1.3	<1.0
MTCA Method A Cleanup Levels					**1000/800[a]**	**500**	**500**	**5**	**1000**	**700**	**1000**	**20**	**5**	**0.01**	**15**	**15**

NOTES:
TOC = Top of Casing in feet
All concentrations are in micrograms per liter (µg/L) (ppb).
Wellhead elevations in feet were taken from prior consultant's reports.
LPH = Liquid phase hydrocarbon
DTW = Depth to water in feet below top of casing
GW Elev. = Groundwater elevation in feet relative to top of casing elevation
TPH-G = Total Petroleum Hydrocarbons as Gasoline by Ecology Method NWTPH-Gx
TPH-D and TPH-O = Total Petroleum Hydrocarbons as Diesel and Oil, respectively, by Ecology Method NWTPH-Dx
B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes
BTEX = Aromatic compounds by EPA Method 8020, 8021B or 8260B, refer to laboratory reports.
EDC = 1,2-Dichloroethane by EPA Method 8260B.
EDB = 1,2-Dibromoethane by EPA Method 8011.
Total Pb by EPA Method 6020; Diss Pb = Dissolved lead by EPA Method 6020
After 9/03/03 Total Pb = Total lead by ICP-USEPA Method 6010; Diss Pb = Dissolved lead by ICP-USEPA Method 6010
-- = Not Analyzed or Sampled
< = Less than the stated laboratory reporting limit
Shaded values equal or exceed MTCA Method A Cleanup Levels.
[a] Concentration levels stated by MTCA Method A for TPH-G are 1000 µg/L when no benzene is present and 800 µg/L when benzene is present.
Data collected before 12/12/03 are taken from prior consultants.
[b] The recovery for the laboratory control sample (LCS) with this sample is below quality control limits. Since no sample remained for a reextraction the data is reported.
[c] Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.
[d] Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analyses. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH=6.
[e] The laboratory reporting limits (RLs) are above current MTCA Method A cleanup levels

APPENDIX A
FIELD AND LABORATORY PROCEDURES

STANTEC MONITORING WELL GAUGING, PURGING AND SAMPLING PROCEDURES

Monitoring well purging and sampling was conducted based on USEPA approved (Puls and Barcelona, 1996) low-flow sampling techniques whenever possible.

Purging Procedures

A. Using a decontaminated instrument (i.e., tape measure, continuity meter, or interface probe) measure the depth to groundwater in reference to the measuring point at the top of the casing. Measure the total depth of the well and diameter of the well casing to calculate the volume of water in the well casing.

B. Based on previously obtained data, if a monitoring well is suspected of containing LPH concentrations, lower a transparent bailer into the well to evaluate the presence of a hydrocarbon sheen on the water table.

C. Decontaminate the purge pump and/or PVC bailers by scrubbing in Alconox detergent solution, followed by a tap water rinse and then a de-ionized water rinse.

D. Purge by low-flow pumping (less than 0.5 liters per minute) for approximately five minutes. Monitor the static water level in the well using a decontaminated instrument and adjust the pumping rate to maintain a minimal drawdown. If low-flow purging is not possible and bailing is used to purge the well, then a minimum of three well volumes will be removed. When purging 3 well volumes, parameters should be measured after each casing volume is removed. If the well goes dry, the procedure listed in step E2 (below) should be followed.

E. Conduct field measurements (i.e., pH, specific conductivity, temperature, and oxidation-reduction potential) note clarity, color, turbidity, and odor of purge water, and measure depth to groundwater.

1. If the well has not been purged dry and drawdown is minimal, continue to pump and conduct field measurements (including depth to water) again every three to five minutes during purging.

    a) If the first through third series of measurements vary by less than 10 percent, the well has been adequately purged. If bailers are used to purge the well, then the water level is allowed to recover to 80 percent of its static condition, or for two hours, whichever comes first prior to beginning the sampling procedure.

    b) If the measurements vary by 10 percent or greater, repeat Step E1 above.

    c) If a minimum of three parameters cannot be measured during purging and or drawdown cannot be controlled to minimal, remove three well volumes with a bailer prior to sampling.

2. If the well has been purged dry, measure the water level and allow the well to recharge to 80 percent, or for two hours, whichever occurs first. Calculate the percent recovery, and begin the sampling procedure.

Sampling Procedures

- Use the pump and a clean, dedicated section of tubing to collect the groundwater sample from the screened interval of the water column. If the pump cannot be used, collect the water sample with a clean, dedicated polyethylene disposable bailer.
- Transfer the groundwater sample into the appropriate container(s). Where applicable, some containers are completely filled to achieve zero headspace. Label the samples according to location and date of collection.
- Enter the samples into Chain-of-Custody and preserve on ice until delivery to the analytical laboratory. Complete the Well Development or Purging/Sampling Log to be stored in the project file.

Reference:

Puls, R.W., and Barcelona M.J., 1996. EPA Ground Water Issue Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures, EPA/540/S-95/504.

APPENDIX B
FIELD DATA SHEETS

SITE VISITATION REPORT

2009-CP256380 (RM&R 01571) Bellingham, Washington

Name(s): Dave Reitz Date: 6/17/09 Time of Arrival Call-In: 0830

Arrival Time: 0830 Departure Time: 1300 Time of Departure Call-In: 1240

Who did you call? C. Codak

DRUM INVENTORY

2	WATER		CARBON	TOTAL OPEN TOP	1
	SOIL		EMPTY	TOTAL BUNG TOP	1

HEALTH AND SAFETY ASSESSMENT

Don P.P.E.
Review HASP & J.S.A.
Set-up Decon Station

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

0830 Arrive on site. Check-in with site-contact & call-in to office. Purchase ice.
0845 Don p.p.e. & perform tailgate safety meeting.
0915 Resume 2009 GWM sample procedures.
1200 Complete 2009 GWM sample procedures, Decon. Equipment & release purge water/rinsate solutions into staged drum.
1215 Pack sample coolers & load equipment into truck.
1230 Check-out with site-contact & call-in to office to inform of departure. Complete project documentation.
1300 Depart job site.

SITE VISITATION REPORT
2Q09 - CP 256380 (RM&R 01571) Bellingham, Washington

Name(s) Davis & Reitz Date: 6/16/09 Time of Arrival Call-In: 1350

Arrival Time: 1350 Departure Time: 1830 Time of Departure Call-In 1740

Who did you call? C. Goak

DRUM INVENTORY

2	WATER		CARBON	TOTAL OPEN TOP	1
	SOIL		EMPTY	TOTAL BUNG TOP	1

HEALTH AND SAFETY ASSESSMENT

Don P.P.E.
Review HASP & JSA.
Set-up Decon. station

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

1350 Arrive on job site. Check-in with site-contact & call-in to office.

1400 Don P.P.E. & perform tailgate safety meeting. Initiate gauging physical measurements of 8 GWM wells prior to 2Q09 GWM procedures

1500 Complete gauging of 8 wells & initiate 2Q09 GWM sample procedures for 8 GWM wells.

1740 Suspend 2Q09 GWM procedures. Call-in to office. Decon. equipment & release purge water/decon. rinsates into staked drum. Label drum.

1800 Pack sample cooler & load equipment into truck.

1820 Check-out with site-contact.

1830 Depart job site.

06/16/09

Stantec Consulting Corporation

HYDROLOGIC DATA SHEET

Gauge Date: 06/16/09

Project Name: CP RM&R 1571 Bellingham

Field Technician: DAVE Reitz

Project Number: 212301495

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y X N___

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N___

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
MW-1		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1430		5.80	22.90	Y	N	Y	
MW-2		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1440		8.53	20.80	Y	N	Y	
MW-3		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1420		5.57	21.00	Y	N	Y	
MW-4		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1400		7.09	20.40	Y	N	Y	
MW-5		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1405		4.80	13.70	Y	N	Y	
MW-6		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1410		6.50	13.90	Y	N	Y	
MW-7		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1415		7.49	18.20	Y	N	Y	
MW-8		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1450		8.00	17.70	Y	N	Y	

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: David Reitz WELL I.D.: MW-4

CLIENT NAME: Conoco Phillips SAMPLED BY: David Reitz SAMPLE I.D.: MW-4

LOCATION: 200 S. 36th St., Bellingham, WA.

DATE PURGED 06/16/09 START (2400hr) 1500 END (2400hr) 1530

DATE SAMPLED 06/16/09 SAMPLE TIME (2400hr) 1515 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.64) 3" ____ (1.44) 4" ____ (2.45) 5" ____ (3.86) 6" ____ (5.68) 8" ____ (9.84) Other ____ ( )

Casing Volume: (liters per foot)

DEPTH TO BOTTOM (feet) = 20.40

DEPTH TO WATER (feet) = 7.09

WATER COLUMN HEIGHT (feet) = 13.31

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
06/16/09	1505	800	15.8	0.763	6.11	Clr
	1508	500	15.8	0.766	6.12	Clr
	1511	500	15.9	0.768	6.13	Clr
	1514	500	15.5	0.780	6.13	Clr
					06/16/09	

Calculated Variance of Final Three Samples: 0.4 0.014 0.01

Acceptable Variance Limits: ≤10% ≤3% ≤0.1

DEPTH TO PURGE INTAKE DURING PURGE: 16.00 SAMPLE DTW: 7.21

ANTICIPATED PURGE INTAKE DEPTH: 16.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B; EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba meter; Peristaltic pump / Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: BBF-481 LOCK#: yes

REMARKS: ____

SIGNATURE: David Reitz

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: Dave Reitz WELL I.D.: MW-5

CLIENT NAME: Conoco Phillips SAMPLED BY: Dave Reitz SAMPLE I.D.: MW-5

LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 06/16/09 START (2400hr) 1540 END (2400hr) 1610

DATE SAMPLED 06/16/09 SAMPLE TIME (2400hr) 1555 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.64) 3" ____ (1.44) 4" ____ (2.45) 5" ____ (3.86) 6" ____ (5.68) 8" ____ (9.84) Other ____ ( )

Casing Volume: (liters per foot)

DEPTH TO BOTTOM (feet) = 13.70

DEPTH TO WATER (feet) = 4.80

WATER COLUMN HEIGHT (feet) = 8.90 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
06/16/09	1545	800	18.7	0.100	6.16	Clr
	1548	500	19.0	0.100	6.17	Clr
	1551	500	18.9	0.101	6.18	Clr
	1554	500	18.7	0.101	6.19	Clr
Calculated Variance of Final Three Samples:			0.3	0.001	0.02	
Acceptable Variance Limits:			≤10%	≤3%	≤0.1	

06/16/09

DEPTH TO PURGE INTAKE DURING PURGE: 9.00 SAMPLE DTW: 5.33

ANTICIPATED PURGE INTAKE DEPTH: 9.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B; EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba meter; Peristaltic pump / Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: Dave Reitz WELL I.D.: MW-6

CLIENT NAME: Conoco Phillips SAMPLED BY: Dave Reitz SAMPLE I.D.: MW-6

LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 06/16/09 START (2400hr) 1620 END (2400hr) 1650

DATE SAMPLED 06/16/09 SAMPLE TIME (2400hr) 1635 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.64) 3" ____ (1.44) 4" ____ (2.45) 5" ____ (3.86) 6" ____ (5.68) 8" ____ (9.84) Other ____ ( )

Casing Volume: (liters per foot)

DEPTH TO BOTTOM (feet) = 13.90

DEPTH TO WATER (feet) = 6.50

WATER COLUMN HEIGHT (feet) = 7.40

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
06/16/09	1625	800	15.6	0.953	6.30	Clr
	1628	500	15.5	0.946	6.29	Clr
	1631	500	15.5	0.943	6.29	Clr
	1634	500	15.3	0.938	6.29	Clr
					06/16/09	

Calculated Variance of Final Three Samples: 0.2 0.008 0

Acceptable Variance Limits: ≤10% ≤3% ≤0.1

DEPTH TO PURGE INTAKE DURING PURGE: 9.00 SAMPLE DTW: 6.78

ANTICIPATED PURGE INTAKE DEPTH: 9.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B; EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba probe; Peristaltic pump/Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: Dave Reitz

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: Dave Reitz WELL I.D.: MW-7

CLIENT NAME: Conoco Phillips SAMPLED BY: Dave Reitz SAMPLE I.D.: MW-7

LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 06/16/09 START (2400hr) 1705 END (2400hr) 1740

DATE SAMPLED 06/16/09 SAMPLE TIME (2400hr) 1720 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (liters per foot) (0.64) (1.44) (2.45) (3.86) (5.68) (9.84) ( )

DEPTH TO BOTTOM (feet) = 18.20

DEPTH TO WATER (feet) = 7.49

WATER COLUMN HEIGHT (feet) = 10.71 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
06/16/09	1710	500	15.6	0.098	6.26	Clr
	1713	500	16.5	0.096	6.26	Clr
	1716	500	16.8	0.096	6.26	Clr
	1719	500	16.2	0.098	6.27	Clr
Calculated Variance of Final Three Samples:			0.6	0.002	0.01	
Acceptable Variance Limits:			≤10%	≤3%	≤0.1	

06/16/09

DEPTH TO PURGE INTAKE DURING PURGE: 14.00 SAMPLE DTW: 7.68

ANTICIPATED PURGE INTAKE DEPTH: 14.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B; EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba meter; Peristaltic pump; Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: Dave Reitz WELL I.D.: MW-3

CLIENT NAME: Conoco Phillips SAMPLED BY: Dave Reitz SAMPLE I.D.: MW-3

LOCATION: 200 S. 36th st. Bellingham, WA.

DATE PURGED 06/17/09 START (2400hr) 0915 END (2400hr) 0950

DATE SAMPLED 06/17/09 SAMPLE TIME (2400hr) 0930 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (liters per foot) (0.64) (1.44) (2.45) (3.86) (5.68) (9.84) ( )

DEPTH TO BOTTOM (feet) = 21.00

DEPTH TO WATER (feet) = 5.57

WATER COLUMN HEIGHT (feet) = 15.43

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
06/17/09	0920	800	13.9	0.856	6.23	Clr
↓	0923	500	14.2	0.833	6.30	Clr
	0926	500	14.7	0.826	6.33	Clr
	0929	500	14.8	0.829	6.34	Clr
Calculated Variance of Final Three Samples:			0.6	0.007	0.04	
Acceptable Variance Limits:			≤10%	≤3%	≤0.1	

06/17/09

DEPTH TO PURGE INTAKE DURING PURGE: 16.00 SAMPLE DTW: 5.60

ANTICIPATED PURGE INTAKE DEPTH: 16.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B; EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba meter; Peristaltic pump / Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: ____

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: Dave Reitz WELL I.D.: MW-2

CLIENT NAME: Conoco Phillips SAMPLED BY: Dave Reitz SAMPLE I.D.: MW-2

LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 06/17/09 START (2400hr) 1045 END (2400hr) 1115

DATE SAMPLED 06/17/09 SAMPLE TIME (2400hr) 1100 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (liters per foot) (0.64) (1.44) (2.45) (3.86) (5.68) (9.84) ( )

DEPTH TO BOTTOM (feet) = 20.80

DEPTH TO WATER (feet) = 8.53

WATER COLUMN HEIGHT (feet) = 12.27

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME M(L)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
06/17/09	1050	500	15.2	0.604	6.33	Clr
	1053	500	15.1	0.603	6.31	Clr
	1056	500	14.9	0.599	6.31	Clr
	1059	500	14.9	0.598	6.30	Clr
						06/17/09
Calculated Variance of Final Three Samples:			0.2	0.005	0.01	
Acceptable Variance Limits:			≤10%	≤3%	≤0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 15.00 SAMPLE DTW: 8.70

ANTICIPATED PURGE INTAKE DEPTH: 15.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B; EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba meter; Peristaltic pump / Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: Dave Reitz WELL I.D.: MW-8

CLIENT NAME: Conoco Phillips SAMPLED BY: Dave Reitz SAMPLE I.D.: MW-8

LOCATION: 200 S. 36th St. Bellingham, WA

DATE PURGED 06/17/09 START (2400hr) 1125 END (2400hr) 1200

DATE SAMPLED 06/17/09 SAMPLE TIME (2400hr) 1140 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.64) 3" ____ (1.44) 4" ____ (2.45) 5" ____ (3.86) 6" ____ (5.68) 8" ____ (9.84) Other ____ ( )

Casing Volume: (liters per foot)

DEPTH TO BOTTOM (feet) = 17.70

DEPTH TO WATER (feet) = 8.00

WATER COLUMN HEIGHT (feet) = 9.70

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
06/17/09	1130	500	15.4	0.865	6.42	Clr
	1133	500	15.9	0.861	6.42	Clr
	1136	500	16.7	0.866	6.40	Clr
	1139	500	16.9	0.877	6.39	Clr
						06/17/09
Calculated Variance of Final Three Samples:			0.10	0.016	0.03	
Acceptable Variance Limits:			≤10%	≤3%	≤0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 12.00 SAMPLE DTW: 8.18

ANTICIPATED PURGE INTAKE DEPTH: 12.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B; EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba meter; Peristaltic pump / Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: BBF-482 LOCK#: yes

REMARKS: Surface intrusion

SIGNATURE: [signature]

Chain Of Custody Record

PACE Analytical Laboratory
940 S. Harney Street, Seattle, WA
(206) 767-5060

INVOICE REMITTANCE ADDRESS:
Stantec
Attn: Chris Gdak
12034 134th Court NE, Suite 102
Redmond, WA 98052

Purchase Order #

ConocoPhillips AOC#
01571

DATE: 06/18/09
PAGE: 1 of 1

SAMPLING COMPANY: STANTEC	**Valid Value ID:**	**CONOCOPHILLIPS SITE NUMBER** AOC 01571 / **GLOBAL ID NO.:**
ADDRESS: 12034 134th Court NE, Suite 102 Redmond, WA 98052		**SITE ADDRESS (Street and City):** 200 South 36th Street, Bellingham, WA 98225 / **ConocoPhillips Manager** Myron Smith
PROJECT CONTACT (Hardcopy or PDF Report to): Chris Gdak		**EDF DELIVERABLE TO (RP or Designee):** / **PHONE NO.:** / **E-MAIL:** / ***LAB USE ONLY***
TELEPHONE: (425) 372-1662 / **FAX:** (425) 372-1650	**E-MAIL:** chris.gdak@stantec.com	
SAMPLER NAME(S) (Print): David Reitz	**CONSULTANT PROJECT NUMBER** 212301495	**REQUESTED ANALYSES**

TURNAROUND TIME (CALENDAR DAYS):
☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

LAB USE ONLY	Field Point Name	Sample ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx	BTEX by 8260B	MTBE by 8260B	EDB	EDC	Total Lead	Dissolved Lead
	MW-1	MW-1	06/17/09	1010	GW	12	X	X	X	X	X	X	X	X
	MW-2	MW-2	"	1100	GW	12	X	X	X	X	X	X	X	X
	MW-3	MW-3	"	0930	GW	12	X	X	X	X	X	X	X	X
	MW-4	MW-4	06/16/09	1515	GW	12	X	X	X	X	X	X	X	X
	MW-5	MW-5	"	1555	GW	12	X	X	X	X	X	X	X	X
	MW-6	MW-6	"	1635	GW	12	X	X	X	X	X	X	X	X
	MW-7	MW-7	"	1720	GW	12	X	X	X	X	X	X	X	X
	MW-8	MW-8	06/17/09	1140	GW	12	X	X	X	X	X	X	X	X
	QCTB	QCTB			DI	9	X		X	X	X	X		

TEMPERATURE ON RECEIPT C°

40-mL VOAs, preserved with HCl

Relinquished by: (Signature)	Received by: (Signature)	Date: 06/18/09	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

9/19/03 Revision

APPENDIX C
CERTIFIED LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

July 06, 2009

Chris Gdak
Stantec
12034 134th Ct NE, Suite 102
Redmond, WA 98052

RE: Project: Site# 01571
Pace Project No.: 251472

Dear Chris Gdak:
Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures

CERTIFICATIONS

Project: Site# 01571
Pace Project No.: 251472

Washington Certification IDs
Washington Certification #: C1229
Oregon Certification #: WA200007
Florida/NELAP Certification #: E87617
Alaska CS Certification #: UST-025
Alaska Drinking Water Micro Certification #: WA01230
Alaska Drinking Water VOC Certification #: WA01-09
California Certification #: 01153CA

SAMPLE ANALYTE COUNT

Project: Site# 01571
Pace Project No.: 251472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
251472001	MW-1	EPA 5030B/8260	LNH	10	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 8011	GR	2	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
251472002	MW-2	EPA 5030B/8260	LNH	10	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 8011	GR	2	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
251472003	MW-3	EPA 5030B/8260	LNH	10	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 8011	GR	2	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
251472004	MW-4	EPA 5030B/8260	LNH	10	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 8011	GR	2	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
251472005	MW-5	EPA 5030B/8260	LNH	10	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 8011	GR	2	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
251472006	MW-6	EPA 5030B/8260	LNH	10	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 8011	GR	2	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
251472007	MW-7	EPA 5030B/8260	LNH	10	PASI-S

SAMPLE ANALYTE COUNT

Project: Site# 01571
Pace Project No.: 251472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	IJF	1	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 8011	GR	2	PASI-S
		NWTPH-Dx	JNH	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
251472008	**MW-8**	EPA 5030B/8260	LNH	10	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 6020	IJF	1	PASI-S
		EPA 8011	GR	2	PASI-S
		NWTPH-Dx	KRK	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
251472009	**TB**	EPA 5030B/8260	LNH	10	PASI-S
		EPA 8011	GR	2	PASI-S
		NWTPH-Gx	ATH	3	PASI-S

ANALYTICAL RESULTS

Project: Site# 01571
Pace Project No.: 251472

Sample: MW-1 **Lab ID: 251472001** Collected: 06/17/09 10:10 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	06/23/09 13:24	06/23/09 18:33	106-93-4	
4-Bromofluorobenzene (S)	111	%	60-140	1	06/23/09 13:24	06/23/09 18:33	460-00-4	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	ND	mg/L	0.078	1	06/22/09 11:35	06/27/09 15:00		
Motor Oil Range	ND	mg/L	0.39	1	06/22/09 11:35	06/27/09 15:00	64742-65-0	
n-Octacosane (S)	81	%	50-150	1	06/22/09 11:35	06/27/09 15:00	630-02-4	
o-Terphenyl (S)	93	%	50-150	1	06/22/09 11:35	06/27/09 15:00	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		06/25/09 19:58		
a,a,a-Trifluorotoluene (S)	94	%	50-150	1		06/25/09 19:58	98-08-8	
4-Bromofluorobenzene (S)	88	%	50-150	1		06/25/09 19:58	460-00-4	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead	ND	ug/L	1.0	1	06/24/09 11:30	07/01/09 12:39	7439-92-1	
6020 MET ICPMS, Dissolved (LF)	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead, Dissolved	ND	ug/L	1.0	1	06/25/09 09:00	07/02/09 12:32	7439-92-1	
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/09 16:45	107-06-2	
Benzene	ND	ug/L	1.0	1		06/22/09 16:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/22/09 16:45	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/09 16:45	1634-04-4	
Toluene	ND	ug/L	1.0	1		06/22/09 16:45	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/22/09 16:45	1330-20-7	
4-Bromofluorobenzene (S)	97	%	78-125	1		06/22/09 16:45	460-00-4	
Dibromofluoromethane (S)	107	%	87-118	1		06/22/09 16:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	75-125	1		06/22/09 16:45	17060-07-0	
Toluene-d8 (S)	103	%	85-120	1		06/22/09 16:45	2037-26-5	

Sample: MW-2 **Lab ID: 251472002** Collected: 06/17/09 11:00 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	06/23/09 13:24	06/23/09 19:03	106-93-4	
4-Bromofluorobenzene (S)	117	%	60-140	1	06/23/09 13:24	06/23/09 19:03	460-00-4	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	ND	mg/L	0.078	1	06/22/09 11:35	06/27/09 15:20		
Motor Oil Range	ND	mg/L	0.39	1	06/22/09 11:35	06/27/09 15:20	64742-65-0	
n-Octacosane (S)	81	%	50-150	1	06/22/09 11:35	06/27/09 15:20	630-02-4	
o-Terphenyl (S)	92	%	50-150	1	06/22/09 11:35	06/27/09 15:20	84-15-1	

ANALYTICAL RESULTS

Project: Site# 01571
Pace Project No.: 251472

Sample: MW-2 **Lab ID: 251472002** Collected: 06/17/09 11:00 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		06/25/09 20:20		
a,a,a-Trifluorotoluene (S)	83	%	50-150	1		06/25/09 20:20	98-08-8	
4-Bromofluorobenzene (S)	79	%	50-150	1		06/25/09 20:20	460-00-4	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead	ND	ug/L	1.0	1	06/24/09 11:30	07/01/09 12:46	7439-92-1	
6020 MET ICPMS, Dissolved (LF)	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead, Dissolved	ND	ug/L	1.0	1	06/25/09 09:00	07/02/09 12:34	7439-92-1	
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/09 17:38	107-06-2	
Benzene	ND	ug/L	1.0	1		06/22/09 17:38	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/22/09 17:38	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/09 17:38	1634-04-4	
Toluene	ND	ug/L	1.0	1		06/22/09 17:38	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/22/09 17:38	1330-20-7	
4-Bromofluorobenzene (S)	98	%	78-125	1		06/22/09 17:38	460-00-4	
Dibromofluoromethane (S)	105	%	87-118	1		06/22/09 17:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		06/22/09 17:38	17060-07-0	
Toluene-d8 (S)	103	%	85-120	1		06/22/09 17:38	2037-26-5	

Sample: MW-3 **Lab ID: 251472003** Collected: 06/17/09 09:30 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	06/23/09 13:24	06/23/09 19:34	106-93-4	
4-Bromofluorobenzene (S)	117	%	60-140	1	06/23/09 13:24	06/23/09 19:34	460-00-4	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	ND	mg/L	0.078	1	06/22/09 11:35	06/27/09 15:40		
Motor Oil Range	ND	mg/L	0.39	1	06/22/09 11:35	06/27/09 15:40	64742-65-0	
n-Octacosane (S)	76	%	50-150	1	06/22/09 11:35	06/27/09 15:40	630-02-4	
o-Terphenyl (S)	87	%	50-150	1	06/22/09 11:35	06/27/09 15:40	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		06/26/09 02:18		
a,a,a-Trifluorotoluene (S)	88	%	50-150	1		06/26/09 02:18	98-08-8	
4-Bromofluorobenzene (S)	89	%	50-150	1		06/26/09 02:18	460-00-4	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead	ND	ug/L	1.0	1	06/24/09 11:30	07/01/09 12:48	7439-92-1	

ANALYTICAL RESULTS

Project: Site# 01571
Pace Project No.: 251472

Sample: MW-3 **Lab ID: 251472003** Collected: 06/17/09 09:30 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved (LF)	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead, Dissolved	ND	ug/L	1.0	1	06/25/09 09:00	07/02/09 12:36	7439-92-1	
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/09 18:04	107-06-2	
Benzene	ND	ug/L	1.0	1		06/22/09 18:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/22/09 18:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/09 18:04	1634-04-4	
Toluene	ND	ug/L	1.0	1		06/22/09 18:04	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/22/09 18:04	1330-20-7	
4-Bromofluorobenzene (S)	99	%	78-125	1		06/22/09 18:04	460-00-4	
Dibromofluoromethane (S)	110	%	87-118	1		06/22/09 18:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		06/22/09 18:04	17060-07-0	
Toluene-d8 (S)	103	%	85-120	1		06/22/09 18:04	2037-26-5	

Sample: MW-4 **Lab ID: 251472004** Collected: 06/16/09 15:15 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	06/23/09 13:24	06/23/09 20:04	106-93-4	
4-Bromofluorobenzene (S)	114	%	60-140	1	06/23/09 13:24	06/23/09 20:04	460-00-4	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	ND	mg/L	0.078	1	06/22/09 11:35	06/27/09 16:00		
Motor Oil Range	ND	mg/L	0.39	1	06/22/09 11:35	06/27/09 16:00	64742-65-0	
n-Octacosane (S)	72	%	50-150	1	06/22/09 11:35	06/27/09 16:00	630-02-4	
o-Terphenyl (S)	82	%	50-150	1	06/22/09 11:35	06/27/09 16:00	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		06/24/09 19:40		
a,a,a-Trifluorotoluene (S)	78	%	50-150	1		06/24/09 19:40	98-08-8	
4-Bromofluorobenzene (S)	74	%	50-150	1		06/24/09 19:40	460-00-4	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead	ND	ug/L	1.0	1	06/24/09 11:30	07/01/09 12:50	7439-92-1	
6020 MET ICPMS, Dissolved (LF)	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead, Dissolved	ND	ug/L	1.0	1	06/25/09 09:00	07/02/09 12:38	7439-92-1	
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/09 18:30	107-06-2	
Benzene	ND	ug/L	1.0	1		06/22/09 18:30	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/22/09 18:30	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/09 18:30	1634-04-4	
Toluene	ND	ug/L	1.0	1		06/22/09 18:30	108-88-3	

ANALYTICAL RESULTS

Project: Site# 01571
Pace Project No.: 251472

Sample: MW-4 **Lab ID: 251472004** Collected: 06/16/09 15:15 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Xylene (Total)	ND	ug/L	3.0	1		06/22/09 18:30	1330-20-7	
4-Bromofluorobenzene (S)	97	%	78-125	1		06/22/09 18:30	460-00-4	
Dibromofluoromethane (S)	109	%	87-118	1		06/22/09 18:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		06/22/09 18:30	17060-07-0	
Toluene-d8 (S)	104	%	85-120	1		06/22/09 18:30	2037-26-5	

Sample: MW-5 **Lab ID: 251472005** Collected: 06/16/09 15:55 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	06/23/09 13:24	06/23/09 20:35	106-93-4	
4-Bromofluorobenzene (S)	117	%	60-140	1	06/23/09 13:24	06/23/09 20:35	460-00-4	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	ND	mg/L	0.078	1	06/22/09 11:35	06/27/09 16:20		
Motor Oil Range	ND	mg/L	0.39	1	06/22/09 11:35	06/27/09 16:20	64742-65-0	
n-Octacosane (S)	81	%	50-150	1	06/22/09 11:35	06/27/09 16:20	630-02-4	
o-Terphenyl (S)	93	%	50-150	1	06/22/09 11:35	06/27/09 16:20	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		06/24/09 20:02		
a,a,a-Trifluorotoluene (S)	69	%	50-150	1		06/24/09 20:02	98-08-8	
4-Bromofluorobenzene (S)	68	%	50-150	1		06/24/09 20:02	460-00-4	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead	ND	ug/L	1.0	1	06/24/09 11:30	07/01/09 12:52	7439-92-1	
6020 MET ICPMS, Dissolved (LF)	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead, Dissolved	ND	ug/L	1.0	1	06/25/09 09:00	07/02/09 12:40	7439-92-1	
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/09 18:56	107-06-2	
Benzene	ND	ug/L	1.0	1		06/22/09 18:56	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/22/09 18:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/09 18:56	1634-04-4	
Toluene	ND	ug/L	1.0	1		06/22/09 18:56	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/22/09 18:56	1330-20-7	
4-Bromofluorobenzene (S)	100	%	78-125	1		06/22/09 18:56	460-00-4	
Dibromofluoromethane (S)	107	%	87-118	1		06/22/09 18:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	75-125	1		06/22/09 18:56	17060-07-0	
Toluene-d8 (S)	102	%	85-120	1		06/22/09 18:56	2037-26-5	

ANALYTICAL RESULTS

Project: Site# 01571
Pace Project No.: 251472

Sample: MW-6 **Lab ID: 251472006** Collected: 06/16/09 16:35 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	06/23/09 13:24	06/23/09 21:36	106-93-4	
4-Bromofluorobenzene (S)	108	%	60-140	1	06/23/09 13:24	06/23/09 21:36	460-00-4	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	ND	mg/L	0.078	1	06/22/09 11:35	06/27/09 16:40		
Motor Oil Range	ND	mg/L	0.39	1	06/22/09 11:35	06/27/09 16:40	64742-65-0	
n-Octacosane (S)	78	%	50-150	1	06/22/09 11:35	06/27/09 16:40	630-02-4	
o-Terphenyl (S)	90	%	50-150	1	06/22/09 11:35	06/27/09 16:40	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		06/24/09 20:24		
a,a,a-Trifluorotoluene (S)	66	%	50-150	1		06/24/09 20:24	98-08-8	
4-Bromofluorobenzene (S)	65	%	50-150	1		06/24/09 20:24	460-00-4	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead	ND	ug/L	1.0	1	06/24/09 11:30	07/01/09 12:54	7439-92-1	
6020 MET ICPMS, Dissolved (LF)	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead, Dissolved	ND	ug/L	1.0	1	06/25/09 09:00	07/02/09 12:42	7439-92-1	
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/09 19:22	107-06-2	
Benzene	ND	ug/L	1.0	1		06/22/09 19:22	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/22/09 19:22	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/09 19:22	1634-04-4	
Toluene	ND	ug/L	1.0	1		06/22/09 19:22	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/22/09 19:22	1330-20-7	
4-Bromofluorobenzene (S)	98	%	78-125	1		06/22/09 19:22	460-00-4	
Dibromofluoromethane (S)	109	%	87-118	1		06/22/09 19:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	75-125	1		06/22/09 19:22	17060-07-0	
Toluene-d8 (S)	104	%	85-120	1		06/22/09 19:22	2037-26-5	

Sample: MW-7 **Lab ID: 251472007** Collected: 06/16/09 17:20 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	06/23/09 13:24	06/23/09 22:06	106-93-4	
4-Bromofluorobenzene (S)	109	%	60-140	1	06/23/09 13:24	06/23/09 22:06	460-00-4	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	**0.44**	mg/L	0.078	1	06/22/09 11:35	06/27/09 17:00		
Motor Oil Range	ND	mg/L	0.39	1	06/22/09 11:35	06/27/09 17:00	64742-65-0	
n-Octacosane (S)	80	%	50-150	1	06/22/09 11:35	06/27/09 17:00	630-02-4	
o-Terphenyl (S)	93	%	50-150	1	06/22/09 11:35	06/27/09 17:00	84-15-1	

ANALYTICAL RESULTS

Project: Site# 01571
Pace Project No.: 251472

Sample: MW-7 **Lab ID: 251472007** Collected: 06/16/09 17:20 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	**240**	ug/L	50.0	1		06/24/09 20:47		
a,a,a-Trifluorotoluene (S)	103	%	50-150	1		06/24/09 20:47	98-08-8	
4-Bromofluorobenzene (S)	103	%	50-150	1		06/24/09 20:47	460-00-4	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead	ND	ug/L	1.0	1	06/24/09 11:30	07/01/09 12:56	7439-92-1	
6020 MET ICPMS, Dissolved (LF)	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead, Dissolved	ND	ug/L	1.0	1	06/25/09 09:00	07/02/09 12:49	7439-92-1	
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/09 20:14	107-06-2	
Benzene	ND	ug/L	1.0	1		06/22/09 20:14	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/22/09 20:14	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/09 20:14	1634-04-4	
Toluene	ND	ug/L	1.0	1		06/22/09 20:14	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/22/09 20:14	1330-20-7	
4-Bromofluorobenzene (S)	98	%	78-125	1		06/22/09 20:14	460-00-4	
Dibromofluoromethane (S)	111	%	87-118	1		06/22/09 20:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		06/22/09 20:14	17060-07-0	
Toluene-d8 (S)	105	%	85-120	1		06/22/09 20:14	2037-26-5	

Sample: MW-8 **Lab ID: 251472008** Collected: 06/17/09 11:40 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	06/23/09 13:24	06/23/09 22:37	106-93-4	
4-Bromofluorobenzene (S)	111	%	60-140	1	06/23/09 13:24	06/23/09 22:37	460-00-4	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	ND	mg/L	0.078	1	06/22/09 11:35	06/29/09 13:27		
Motor Oil Range	ND	mg/L	0.39	1	06/22/09 11:35	06/29/09 13:27	64742-65-0	
n-Octacosane (S)	80	%	50-150	1	06/22/09 11:35	06/29/09 13:27	630-02-4	
o-Terphenyl (S)	90	%	50-150	1	06/22/09 11:35	06/29/09 13:27	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		06/26/09 03:02		
a,a,a-Trifluorotoluene (S)	84	%	50-150	1		06/26/09 03:02	98-08-8	
4-Bromofluorobenzene (S)	82	%	50-150	1		06/26/09 03:02	460-00-4	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead	**1.3**	ug/L	1.0	1	06/24/09 11:30	07/01/09 12:58	7439-92-1	

ANALYTICAL RESULTS

Project: Site# 01571
Pace Project No.: 251472

Sample: MW-8 **Lab ID: 251472008** Collected: 06/17/09 11:40 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved (LF)	Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Lead, Dissolved	ND	ug/L	1.0	1	06/25/09 09:00	07/02/09 12:51	7439-92-1	
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	**2.8**	ug/L	1.0	1		06/22/09 20:41	107-06-2	
Benzene	ND	ug/L	1.0	1		06/22/09 20:41	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/22/09 20:41	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/09 20:41	1634-04-4	
Toluene	ND	ug/L	1.0	1		06/22/09 20:41	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/22/09 20:41	1330-20-7	
4-Bromofluorobenzene (S)	98	%	78-125	1		06/22/09 20:41	460-00-4	
Dibromofluoromethane (S)	109	%	87-118	1		06/22/09 20:41	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		06/22/09 20:41	17060-07-0	
Toluene-d8 (S)	105	%	85-120	1		06/22/09 20:41	2037-26-5	

Sample: TB **Lab ID: 251472009** Collected: 06/17/09 00:00 Received: 06/19/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	06/23/09 13:24	06/23/09 23:07	106-93-4	
4-Bromofluorobenzene (S)	116	%	60-140	1	06/23/09 13:24	06/23/09 23:07	460-00-4	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		06/26/09 01:55		
a,a,a-Trifluorotoluene (S)	79	%	50-150	1		06/26/09 01:55	98-08-8	
4-Bromofluorobenzene (S)	80	%	50-150	1		06/26/09 01:55	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	ND	ug/L	1.0	1		06/22/09 15:52	107-06-2	
Benzene	ND	ug/L	1.0	1		06/22/09 15:52	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/22/09 15:52	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/22/09 15:52	1634-04-4	
Toluene	ND	ug/L	1.0	1		06/22/09 15:52	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/22/09 15:52	1330-20-7	
4-Bromofluorobenzene (S)	97	%	78-125	1		06/22/09 15:52	460-00-4	
Dibromofluoromethane (S)	105	%	87-118	1		06/22/09 15:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		06/22/09 15:52	17060-07-0	
Toluene-d8 (S)	104	%	85-120	1		06/22/09 15:52	2037-26-5	

QUALITY CONTROL DATA

Project: Site# 01571
Pace Project No.: 251472

QC Batch: MSV/1142 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008, 251472009

METHOD BLANK: 4430 Matrix: Water
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008, 251472009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	06/22/09 14:59	
Benzene	ug/L	ND	1.0	06/22/09 14:59	
Ethylbenzene	ug/L	ND	1.0	06/22/09 14:59	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/22/09 14:59	
Toluene	ug/L	ND	1.0	06/22/09 14:59	
Xylene (Total)	ug/L	ND	3.0	06/22/09 14:59	
1,2-Dichloroethane-d4 (S)	%	100	75-125	06/22/09 14:59	
4-Bromofluorobenzene (S)	%	97	78-125	06/22/09 14:59	
Dibromofluoromethane (S)	%	109	87-118	06/22/09 14:59	
Toluene-d8 (S)	%	103	85-120	06/22/09 14:59	

LABORATORY CONTROL SAMPLE & LCSD: 4431 4432

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	10	9.9	10.0	99	100	73-127	2	30	
Benzene	ug/L	10	10.9	10.7	109	107	75-124	2	30	
Ethylbenzene	ug/L	10	10.4	10.2	104	102	76-124	2	30	
Methyl-tert-butyl ether	ug/L	10	8.7	8.8	87	88	72-130	1	30	
Toluene	ug/L	10	10.3	10	103	100	75-124	3	30	
Xylene (Total)	ug/L	30	31.0	30.5	103	102	76-123	2	30	
1,2-Dichloroethane-d4 (S)	%				97	99	75-125			
4-Bromofluorobenzene (S)	%				99	98	78-125			
Dibromofluoromethane (S)	%				105	107	87-118			
Toluene-d8 (S)	%				104	106	85-120			

QUALITY CONTROL DATA

Project: Site# 01571
Pace Project No.: 251472

QC Batch: MPRP/1126 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET Dissolved
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008

METHOD BLANK: 4621 Matrix: Water
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	ND	1.0	07/02/09 12:09	

LABORATORY CONTROL SAMPLE: 4622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	100	92.0	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4623 4624

Parameter	Units	251472008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead, Dissolved	ug/L	ND	100	100	89.8	90.6	90	91	75-125	.8	

QUALITY CONTROL DATA

Project: Site# 01571
Pace Project No.: 251472

QC Batch: OEXT/1200 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008

METHOD BLANK: 4373 Matrix: Water
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range	mg/L	ND	0.080	06/27/09 11:21	
Motor Oil Range	mg/L	ND	0.40	06/27/09 11:21	
n-Octacosane (S)	%	84	50-150	06/27/09 11:21	
o-Terphenyl (S)	%	91	50-150	06/27/09 11:21	

LABORATORY CONTROL SAMPLE & LCSD: 4374 4375

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range	mg/L	5	3.8	3.8	75	77	51-147	2	30	
Motor Oil Range	mg/L	5	4.4	4.3	87	86	20-160	.9	30	
n-Octacosane (S)	%				83	85	50-150			
o-Terphenyl (S)	%				97	100	50-150			

QUALITY CONTROL DATA

Project: Site# 01571
Pace Project No.: 251472

QC Batch: OEXT/1204 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008, 251472009

METHOD BLANK: 4436 Matrix: Water
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008, 251472009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.010	06/23/09 11:57	
4-Bromofluorobenzene (S)	%	113	60-140	06/23/09 11:57	

LABORATORY CONTROL SAMPLE: 4437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.17	0.23	136	60-140	
4-Bromofluorobenzene (S)	%			146	60-140	1n

MATRIX SPIKE SAMPLE: 4438

Parameter	Units	251469001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	.17	0.19	112	60-140	
4-Bromofluorobenzene (S)	%				118	60-140	

SAMPLE DUPLICATE: 4439

Parameter	Units	251469001 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
4-Bromofluorobenzene (S)	%		109	6	

QUALITY CONTROL DATA

Project: Site# 01571
Pace Project No.: 251472

QC Batch: GCV/1098 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 251472004, 251472005, 251472006, 251472007

METHOD BLANK: 4499 Matrix: Water
Associated Lab Samples: 251472004, 251472005, 251472006, 251472007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	06/24/09 15:31	
4-Bromofluorobenzene (S)	%	80	50-150	06/24/09 15:31	
a,a,a-Trifluorotoluene (S)	%	83	50-150	06/24/09 15:31	

LABORATORY CONTROL SAMPLE: 4500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	250	278	111	50-163	
4-Bromofluorobenzene (S)	%			98	50-150	
a,a,a-Trifluorotoluene (S)	%			99	50-150	

MATRIX SPIKE SAMPLE: 4501

Parameter	Units	251473001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	ND	250	288	107	50-163	
4-Bromofluorobenzene (S)	%				92	50-150	
a,a,a-Trifluorotoluene (S)	%				97	50-150	

SAMPLE DUPLICATE: 4502

Parameter	Units	251472007 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	240	255	6	
4-Bromofluorobenzene (S)	%	103	96	7	
a,a,a-Trifluorotoluene (S)	%	103	96	7	

QUALITY CONTROL DATA

Project: Site# 01571
Pace Project No.: 251472

QC Batch: MPRP/1121 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008

METHOD BLANK: 4572 Matrix: Water
Associated Lab Samples: 251472001, 251472002, 251472003, 251472004, 251472005, 251472006, 251472007, 251472008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	1.0	07/01/09 12:20	

LABORATORY CONTROL SAMPLE: 4573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	96.6	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4574 4575

Parameter	Units	251472008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	1.3	100	100	99.5	98.0	98	97	75-125	1	

QUALITY CONTROL DATA

Project: Site# 01571
Pace Project No.: 251472

QC Batch: GCV/1101
QC Batch Method: NWTPH-Gx
Analysis Method: NWTPH-Gx
Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 251472001, 251472002

METHOD BLANK: 4658 Matrix: Water
Associated Lab Samples: 251472001, 251472002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	06/25/09 11:34	
4-Bromofluorobenzene (S)	%	88	50-150	06/25/09 11:34	
a,a,a-Trifluorotoluene (S)	%	95	50-150	06/25/09 11:34	

LABORATORY CONTROL SAMPLE: 4659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	250	312	125	50-163	
4-Bromofluorobenzene (S)	%			94	50-150	
a,a,a-Trifluorotoluene (S)	%			100	50-150	

MATRIX SPIKE SAMPLE: 4764

Parameter	Units	251464002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	ND	250	161	53	50-163	
4-Bromofluorobenzene (S)	%				58	50-150	
a,a,a-Trifluorotoluene (S)	%				63	50-150	

SAMPLE DUPLICATE: 4763

Parameter	Units	251464001 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	34.5J		
4-Bromofluorobenzene (S)	%	81	90	10	
a,a,a-Trifluorotoluene (S)	%	88	98	11	

QUALITY CONTROL DATA

Project: Site# 01571
Pace Project No.: 251472

QC Batch: GCV/1102 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 251472003, 251472008, 251472009

METHOD BLANK: 4660 Matrix: Water
Associated Lab Samples: 251472003, 251472008, 251472009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	06/26/09 00:26	
4-Bromofluorobenzene (S)	%	89	50-150	06/26/09 00:26	
a,a,a-Trifluorotoluene (S)	%	90	50-150	06/26/09 00:26	

LABORATORY CONTROL SAMPLE: 4661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	250	287	115	50-163	
4-Bromofluorobenzene (S)	%			90	50-150	
a,a,a-Trifluorotoluene (S)	%			94	50-150	

MATRIX SPIKE SAMPLE: 4766

Parameter	Units	251472008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	ND	250	362	132	50-163	
4-Bromofluorobenzene (S)	%				89	50-150	
a,a,a-Trifluorotoluene (S)	%				91	50-150	

SAMPLE DUPLICATE: 4765

Parameter	Units	251472003 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	26J		
4-Bromofluorobenzene (S)	%	89	89	.6	
a,a,a-Trifluorotoluene (S)	%	88	87	.9	

Sample Condition Upon Receipt

Pace Analytical

Client Name: Stantec-WA

Project # 251472

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other ____

Tracking #: ____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other ____

Thermometer Used: Horiba 132013 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 4.2, 4.2, 6.5, 3.3, 4.1, 5.1 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/19/09 PD

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A
Sufficient Volume:	☑Yes	☐No	☐N/A
Correct Containers Used:	☑Yes	☐No	☐N/A
-Pace Containers Used:	☑Yes	☐No	☐N/A
Containers Intact:	☑Yes	☐No	☐N/A
Filtered volume received for Dissolved tests	☐Yes	☑No	☐N/A
Sample Labels match COC:	☑Yes	☐No	☐N/A
-Includes date/time/ID/Analysis Matrix: H2O			
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No	
Samples checked for dechlorination:	☐Yes	☐No	☑N/A
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A
Trip Blank Present:	☑Yes	☐No	☐N/A
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A
Pace Trip Blank Lot # (if purchased): ____			

1. Pace electronic COC
2.
3.
4.
5.
6.
7.
8.
9.
10.
11. 500 mL unpreserved bottles provided
12.
13.

Initial when completed	Lot # of added preservative

14.
15. Sample #4 / VOA vial has headspace
16.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: ____ Date: ____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).