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Stantec Consulting Corporation
12034 134th Court NE, Suite 102
Redmond, WA 98052
Tel: (425) 298-1000
Fax: (425) 298-1020

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Quarterly Groundwater Monitoring Report - Third Quarter 2009
ConocoPhillips Service Station No. 256380 (RM&R #1571)
Washington State Department of Ecology Facility No. 11191596
200 South 36th Street
Bellingham, Washington 98225

Stantec Project No.:
212301495

Submitted to:
Ms. Donna Musa
Toxics Cleanup Program
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

November 16, 2009

COMPLETED
site reg 2/25/10

Dear Ms. Musa:

Stantec Consulting Corporation (Stantec) is pleased to present this quarterly groundwater monitoring report to the Washington State Department of Ecology (DOE) Toxics Cleanup Program (TCP) on behalf of the ConocoPhillips Company (ConocoPhillips). This report describes the results of groundwater monitoring activities performed by Stantec during the third quarter of 2009 (the reporting period) at ConocoPhillips Facility No. 256380 (RM&R #1571; DOE Facility No. 11191596) located at 200 South 36th Street in Bellingham, Washington (the Site).

GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities during the reporting period were performed on September 29, 2009. Groundwater monitoring activities were performed in accordance with Stantec's protocols for groundwater monitoring events (see Appendix A).

Eight groundwater monitoring wells (MW-1 through MW-8) were gauged and sampled. These activities are described below.

Monitoring Well Gauging

Eight groundwater monitoring wells were gauged: MW-1 through 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 5.53 feet (MW-5) to 9.38 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. On August 20, 2009, Otak, Inc. surveyed the locations of major aboveground features at the Site and the locations and elevations (TOC and ground surface) of groundwater monitoring wells at the Site. Historic groundwater gauging data and gauging data from the reporting period are summarized in Table 1. The groundwater elevations for the current reporting period were calculated using the new TOC elevations. Historic groundwater elevations were based on historic TOC elevations and have not been recalculated using the new TOC elevations. Well locations and groundwater flow direction are shown on Figure 1. Based on these data, the water table at the Site may suggest an elevation ridge that transects northeast to southwest through the southeastern portion of the Site. Groundwater flow directions appear to be directed generally to the north in the western portion of the Site and to the south-southeast in the southeastern portion of the Site. The groundwater gradient in the western portion of the Site is calculated as 0.0034 to 0.0086 feet per foot (ft/ft) and in the southeastern portion of the Site is calculated as 0.0058 ft/ft.

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) and methyl tert-butyl ether (MTBE) using Environmental Protection Agency (EPA) Method 8260B;
- Total petroleum hydrocarbons (TPH) gasoline range organics (TPH-G) using DOE Northwest Method NWTPH-Gx; and,
- TPH diesel range organics (TPH-D) and TPH oil range organics (TPH-O) using DOE Northwest Method NWTPH-Dx with silica gel/acid cleanup.

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 and BTEX for the reporting period and the three previous reporting periods are illustrated on Figure 2.

A summary of the analytical results exceeding Model Toxics Control Act (MTCA) Method A cleanup levels is provided below. Analytical results not described below did not exceed MTCA Method A cleanup levels.

- TPH-D was detected in MW-7 at a concentration of 839 micrograms per liter ($\mu\text{g/L}$), which exceeded the MTCA Method A cleanup level of 500 $\mu\text{g/L}$.
- TPH-O was detected in MW-7 at a concentration of 566 micrograms per liter ($\mu\text{g/L}$), which exceeded the MTCA Method A cleanup level of 500 $\mu\text{g/L}$.

This data appears consistent with data reported from the third quarter of 2008. It appears likely that seasonal fluctuations in the water table at the Site result in seasonal fluctuations in the detected concentrations of petroleum hydrocarbons in groundwater.

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. It does not appear as though QA/QC concerns were identified in the analytical report.

WASTE DISPOSAL

Purge and rinse 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-D and TPH-O in MW-7 (only) exceeded their respective MTCA Method A cleanup levels. This data appears consistent with data reported from the third quarter of

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Quarterly Groundwater Monitoring Report Third Quarter 2009


November 16, 2009

2008. It appears likely that seasonal fluctuations in the water table at the Site result in seasonal fluctuations in the detected concentrations of petroleum hydrocarbons in groundwater. No other exceedances of MTCA Method A cleanup levels were observed for any of the constituents analyzed at any of the sampling locations during the reporting period.

LIMITATIONS AND CERTIFICATIONS

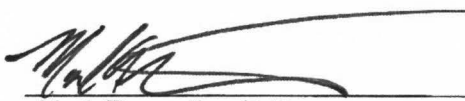
This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this work plan was prepared and applicable to the location of the Site. It was prepared for the 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:

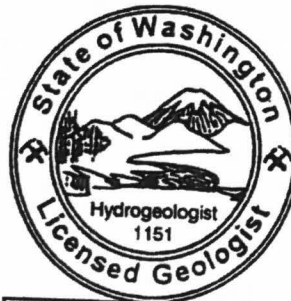


Andrea Dohrrell
Geologic Staff

Reviewed by:



Mark Trewartha, R.G.
Senior Hydrogeologist

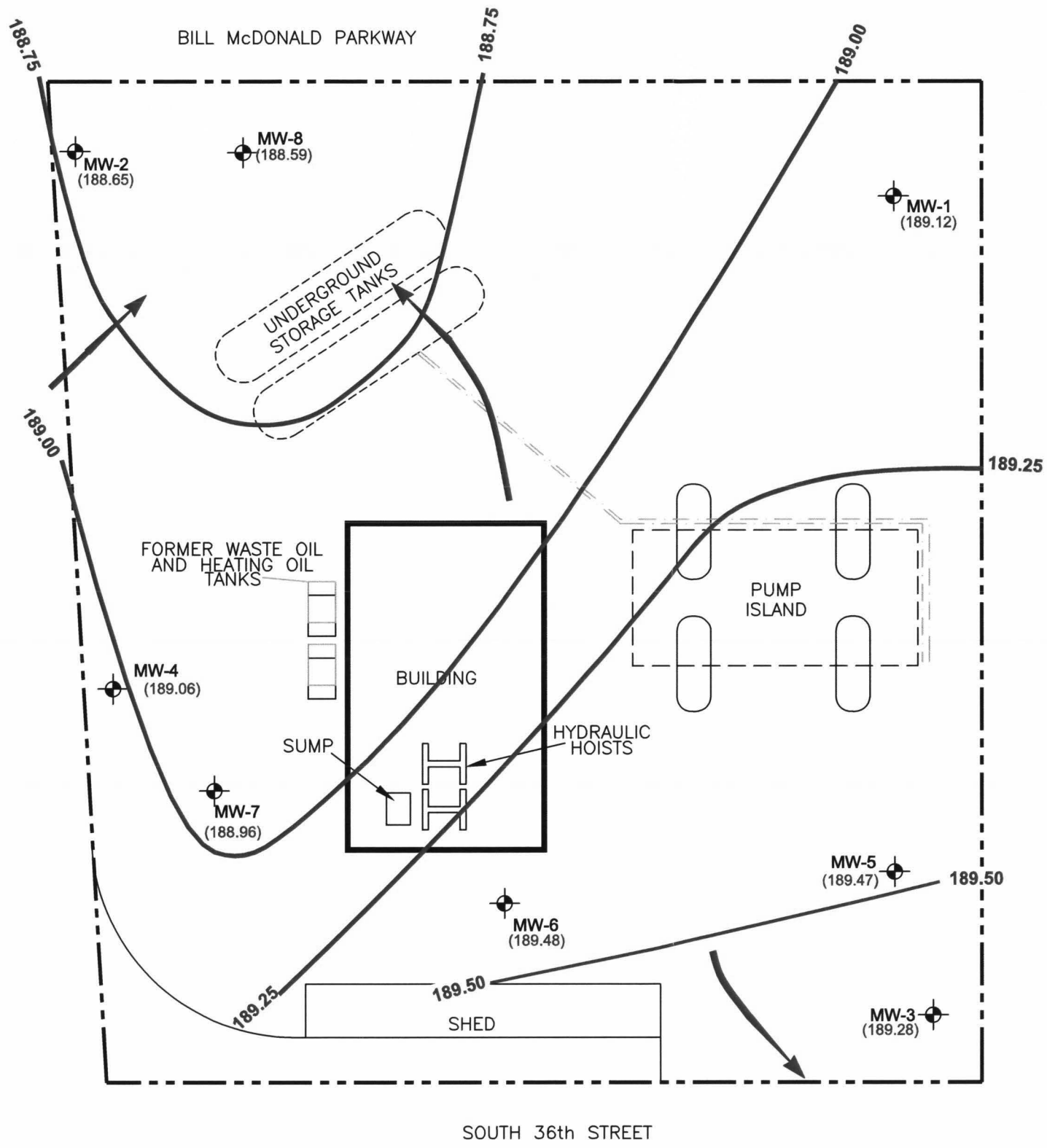


Mark A. Trewartha

ATTACHMENTS

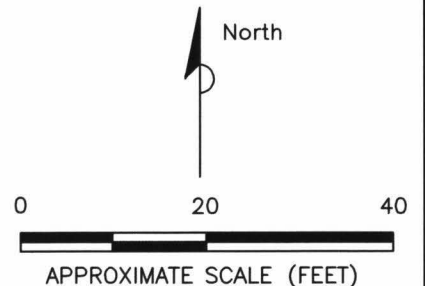
Table 1	Historical Groundwater Elevations and Sample Analytical Results
Figure 1	Site Plan with Groundwater Elevations (September 29, 2009)
Figure 2	Site Plan with Analytical Results (September 29, 2009)
Appendix A	Field and Laboratory Procedures
Appendix B	Field Data Sheets
Appendix C	Certified Laboratory Analytical Report and Chain-of-Custody Documentation

FIGURES



- LEGEND**
- MW-1 MONITORING WELL LOCATION AND ID
 - - - - SITE BOUNDARY
- GROUNDWATER**
- (189.12) GROUNDWATER ELEVATION (FEET)
 - INFERRED GROUNDWATER FLOW DIRECTION
 - 189.00 GROUNDWATER ELEVATION CONTOUR (FEET)

- NOTES:**
- 1). ALL LOCATIONS ARE APPROXIMATE.
 - 2). CONTOUR INTERVAL = 0.25 FEET



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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

FILEPATH:K:\1-CLIENTS\ConocoPhillips\01CP\1571-Bellingham(6380)-212301495\3Q09\6380-2009-3Q.dwg|dheller|Nov 06, 2009 at 14:47|Layout: F1-GWE (3Q09)

 12034 134th COURT, SUITE 102 REDMOND, WASHINGTON PHONE: (425) 298-1000 FAX: (425) 298-1020	FOR: FACILITY NO. 256380 (RM&R 1571) 200 SOUTH 36th STREET BELLINGHAM, WASHINGTON		SITE PLAN WITH GROUNDWATER ELEVATIONS (SEPTEMBER 29, 2009)		FIGURE: 1
	JOB NUMBER: 212301495 (01571)	DRAWN BY: DJH	CHECKED BY: TP	APPROVED BY: JT	DATE: 11/5/09

MW-8	12/10/08	3/31/09	6/17/09	9/29/09
TPH-G	<50	<50.0	<50.0	<50.0
TPH-D	<29	<82	<78	88.5
TPH-O	180	<410	<390	<388
B	<0.5	<1.0	<1.0	<1.0
T	<0.7	<1.0	<1.0	<1.0
E	<0.8	<1.0	<1.0	<1.0
X	<0.8	<1.0	<3.0	<3.0

MW-2	12/10/08	3/31/09	6/17/09	9/29/09
TPH-G	--	<50	<50.0	<50.0
TPH-D	--	<800	<78	<77.7
TPH-O	--	<1,000	<390	<388
B	--	<0.5	<1.0	<1.0
T	--	<0.7	<1.0	<1.0
E	--	<0.8	<1.0	<1.0
X	--	<0.8	<3.0	<3.0

MW-1	12/10/08	3/31/09	6/17/09	9/29/09
TPH-G	<50	<50.0	<50.0	<50.0
TPH-D	<29	<83	<78	<77.7
TPH-O	<69	<420	<390	<388
B	<0.5	<1.0	<1.0	<1.0
T	<0.7	<1.0	<1.0	<1.0
E	<0.8	<1.0	<1.0	<1.0
X	<0.8	<1.0	<3.0	<3.0

MW-4	12/10/08	3/31/09	6/17/09	9/29/09
TPH-G	--	--	<50.0	<50.0
TPH-D	--	--	<78	256
TPH-O	--	--	<390	<396
B	--	--	<1.0	<1.0
T	--	--	<1.0	<1.0
E	--	--	<1.0	<1.0
X	--	--	<3.0	<3.0

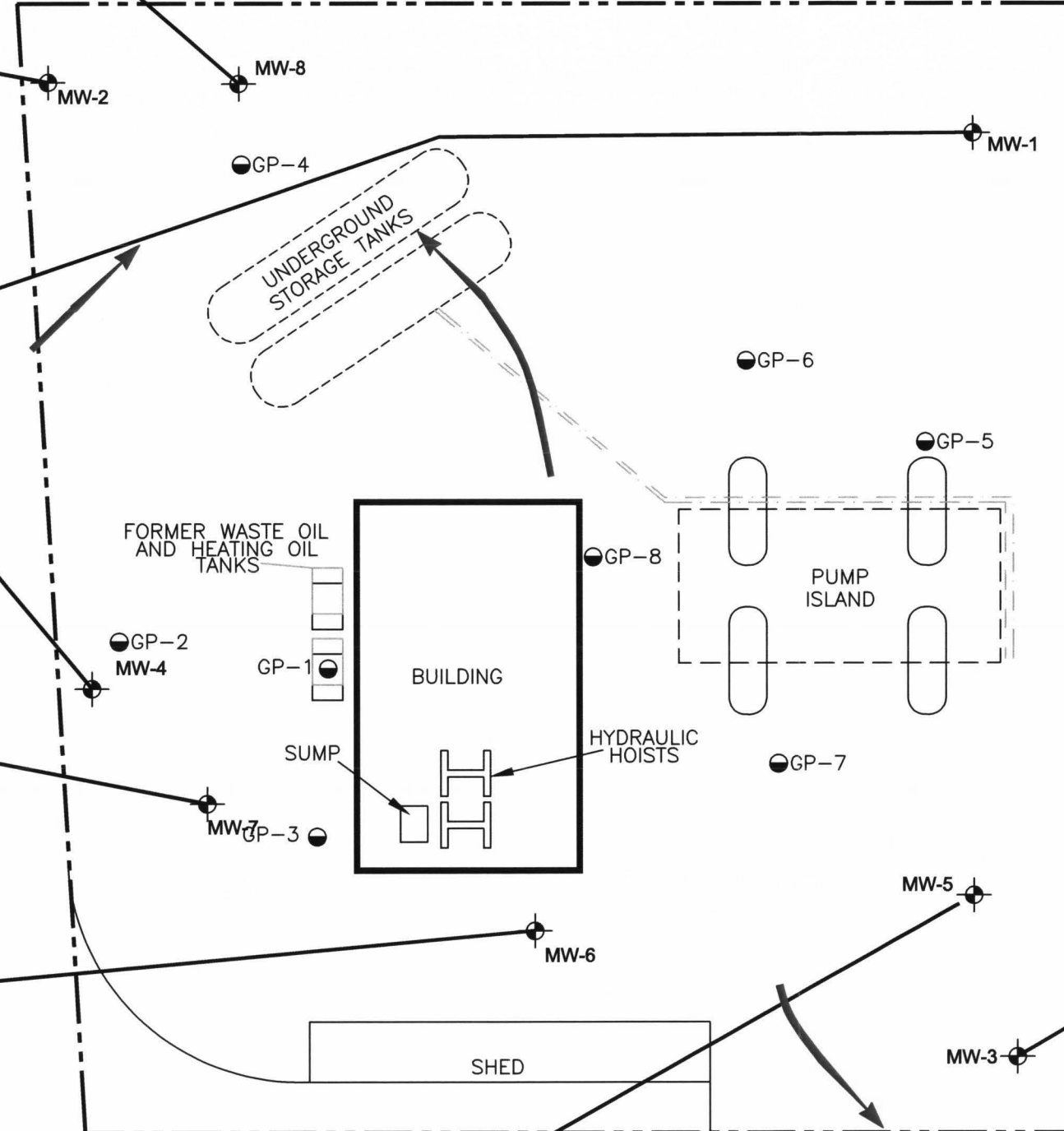
MW-7	12/10/08	3/31/09	6/16/09	9/29/09
TPH-G	260	352	240	134
TPH-D	460	220	440	839
TPH-O	<68	<420	<390	566
B	<0.5	<1.0	<1.0	<1.0
T	<0.7	<1.0	<1.0	<1.0
E	<0.8	<1.0	<1.0	<1.0
X	<0.8	<1.0	<3.0	<3.0

MW-6	12/10/08	3/31/09	6/16/09	9/29/09
TPH-G	--	--	<50.0	<50.0
TPH-D	--	--	<78	<78.4
TPH-O	--	--	<390	<392
B	--	--	<1.0	<1.0
T	--	--	<1.0	<1.0
E	--	--	<1.0	<1.0
X	--	--	<3.0	<3.0

MW-5	12/10/08	3/31/09	6/16/09	9/29/09
TPH-G	--	--	<50.0	<50.0
TPH-D	--	--	<78	183
TPH-O	--	--	<390	<386
B	--	--	<1.0	<1.0
T	--	--	<1.0	<1.0
E	--	--	<1.0	<1.0
X	--	--	<3.0	<3.0

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

BILL McDONALD PARKWAY



SOUTH 36th STREET

SOUTH SAMISH WAY

LEGEND

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

ANALYTES

ADDITIONAL ANALYTES LOCATED ON TABLE 1

WELL ID	ANALYTES
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

UNITS IN MICROGRAMS PER LITER (µg/L)

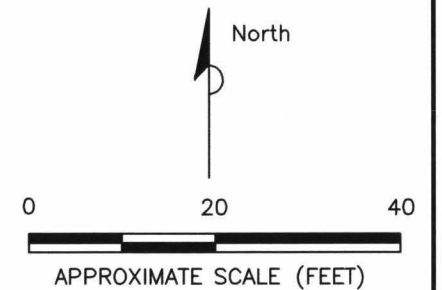
BOLD VALUES EQUAL OR EXCEED MTCA METHOD A CLEANUP LEVELS.

- < LESS THAN LABORATORY REPORTING LIMIT
- NOT ANALYZED OR NOT APPLICABLE

NOTE:

- 1). ALL LOCATIONS ARE APPROXIMATE.

MW-3	12/10/08	3/31/09	6/17/09	9/29/09
TPH-G	--	--	<50.0	<50.0
TPH-D	--	--	<78	<78.4
TPH-O	--	--	<390	<392
B	--	--	<1.0	<1.0
T	--	--	<1.0	<1.0
E	--	--	<1.0	<1.0
X	--	--	<3.0	<3.0



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 12034 134th COURT, SUITE 102 REDMOND, WASHINGTON PHONE: (425) 298-1000 FAX: (425) 298-1020	FOR: ConocoPhillips FACILITY NO. 256380 (RM&R 1571) 200 SOUTH 36th STREET BELLINGHAM, WASHINGTON		SITE PLAN WITH ANALYTICAL RESULTS (SEPTEMBER 29, 2009)		FIGURE: 2
	JOB NUMBER: 212301495 (01571)	DRAWN BY: DJH	CHECKED BY: TP	APPROVED BY: JT	DATE: 11/5/09

TABLE

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)
MW1 98.49	03/11/99	4.96	--	93.53	<50	<250	<750 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	2.41	--	
	05/25/99	5.33	--	93.16	<50.0	<250	<750 ^a	<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 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	6.18	--	
	02/10/00	6.10	--	92.39	<50.0	<250	<750 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	1.75	--	
	02/02/01	5.17	--	93.32	<50.0	588	<750 ^a	12.4	1.02	1.10	2.77	--	--	--	--	<10.0	
	02/08/02	5.77	--	92.72	838	1,600	<500	128	2.15	85.4	6.55	--	--	--	7.70	<10.0	
	09/20/02	6.27	--	92.22	197	1,320	<588 ^a	1.82	<0.500	33.0	<1.00	--	--	--	<1.00	--	
	12/04/02	7.05	--	91.44	373	511	<568 ^a	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 ^a	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 ^a	<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 ^b	<500 ^c	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--	
	03/05/08	5.34	--	93.15	<50 ^d	<800 ^{b,e}	<1,000 ^{f,g}	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,g}	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	
195.79	09/29/09	6.67	0.00	189.12	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<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)
MW2	03/11/99		7.93	--	92.81	<50	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	162	--
100.74	05/25/99		8.18	--	92.56	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	08/12/99		8.94	--	91.80	<50.0	281	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	12/07/99		8.04	--	92.70	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	17.0	--
	02/10/00		8.32	--	92.42	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	49.1	--
	02/02/01		6.40	--	94.34	<50.0	<250	<750*	<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*	<0.500	1.36	<0.500	2.53	--	--	--	40.1	--
	09/03/03		9.13	--	91.61	<80.0	<298	<595*	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*	<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	--	--	--	--
	09/09/07		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**	<1,000**	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08		8.25	0.00	92.49	<50	<76*	<95*	<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	
198.03	09/29/09		9.38	0.00	188.65	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<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		
		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*	<0.500	<0.500	<0.500	<1.00	--	--	--	6.35	--
97.84	05/25/99	5.19	--	92.65	210	383	<750*	<0.500	<0.500	3.04	3.93	--	--	--	--	--
	08/12/99	5.70	--	92.14	56.3	<250	<750*	<0.500	<0.500	0.732	1.84	--	--	--	--	--
	12/07/99	5.03	--	92.81	94.7	<250	<750*	<0.500	0.596	<0.500	<1.00	--	--	--	4.40	--
	02/10/00	4.92	--	92.92	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	17.6	--
	02/02/01	4.76	--	93.08	63.0	413	<750*	<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	<506*	<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*	560*	<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	
195.19	09/29/09	5.91	0.00	189.28	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	<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		
		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 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	29.0	--	
99.44	05/25/99	6.62	--	92.82	<50.0	<250	<750 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	
	08/12/99	7.31	--	92.13	<50.0	<250	<750 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	
	12/07/99	6.37	--	93.07	<50.0	<250	<750 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	10.2	--	
	02/10/00	6.48	--	92.96	<50.0	<250	<750 ^a	<0.500	<0.500	<0.500	<1.00	--	--	--	23.6	--	
	02/02/01	6.37	--	93.07	<50.0	<250	<750 ^a	<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 ^a	<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 ^a	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 ^a	<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	0.6	--	--	--	--	
	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	
196.77	09/29/09	7.71	0.00	189.06	<50.0	256	<396	<1.0	<1.0	<1.0	<3.0	<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		
		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
195.00	09/29/09	5.53	0.00	189.47	<50.0	183	<386	<1.0	<1.0	<1.0	<3.0	<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
195.52	09/29/09	7.04	0.00	189.48	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	<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	--	--	--	--
	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
195.93	09/29/09	7.97	0.00	188.96	134	839	566	<1.0	<1.0	<1.0	<3.0	<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		
		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
197.48	09/29/09	8.89	0.00	188.59	<50.0	88.5	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--
MTCA Method A Cleanup Levels					1000/800 ^e	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.

^d 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.

^e 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.

^f Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

^g 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.

^h 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
3Q09 - CP 256380 (RM&R 01571) Bellingham, Washington

Name(s) D. Retz Date: 09/29/09 Time of Arrival Call-In: 0800
 Arrival Time: 0700 Departure Time: 1430 Time of Departure Call-In: 1400
 Who did you call? C. Gdak

DRUM INVENTORY

<u>1</u>	WATER	_____	CARBON	TOTAL OPEN TOP	_____
_____	SOIL	_____	EMPTY	TOTAL BUNG TOP	<u>1</u>

HEALTH AND SAFETY ASSESSMENT

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

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

0700 Arrive on site. Purchase ice. Check in with site-contact
 0710 Day pipe & perform tailgate safety meeting.
 Set-up decon. station
 0730 Initiate gauging of physical measurements at 8 GWM wells prior to 3Q09 GWM sample procedures.
 0800 Call in to office.
 0840 Complete gauging procedures & initiate 3Q09 GWM sample procedures at 8 wells.
 1315 Complete 3Q09 GWM sample procedures. Decon. equipment & release purple water / decon. rinsates into staged drum. Label drum.
 1331 Pack sample coolers & load equipment into trucks.
 1350 Check-out with site-contact & leave into office.
 1400 Complete daily documentation
 1430 Depart job site.

[Signature]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: D. Ratz WELL I.D.: MW-4
 CLIENT NAME: Conoco Phillips SAMPLED BY: D. Ratz SAMPLE I.D.: MW-4
 LOCATION: Bellingham, WA.

DATE PURGED 09/29/09 START (2400hr) 0845 END (2400hr) 0910
 DATE SAMPLED 09/29/09 SAMPLE TIME (2400hr) 0900 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) = 21.50
 DEPTH TO WATER (feet) = 7.71
 WATER COLUMN HEIGHT (feet) = 13.79 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>09/29/09</u>	<u>0850</u>	<u>900</u>	<u>14.38</u>	<u>0.864</u>	<u>5.83</u>	<u>Clr</u>
	<u>0853</u>	<u>500</u>	<u>14.56</u>	<u>0.859</u>	<u>5.91</u>	<u>Clr</u>
	<u>0856</u>	<u>500</u>	<u>15.04</u>	<u>0.856</u>	<u>5.94</u>	<u>Clr</u>
	<u>0859</u>	<u>500</u>	<u>14.85</u>	<u>0.853</u>	<u>5.96</u>	<u>Clr</u>
Calculated Variance of Final Three Samples:			<u>0.48</u>	<u>0.006</u>	<u>0.05</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

DEPTH TO PURGE INTAKE DURING PURGE: 17.00 SAMPLE DTW: 7.89

ANTICIPATED PURGE INTAKE DEPTH: 17.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B
EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: Glass / HCL

PURGING EQUIPMENT: Horiba Water Meter SAMPLING EQUIPMENT: Peristaltic pump
Peristaltic pump Interface probe
 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] Page 1 of 1

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: D. Reitz WELL I.D.: MW-5
 CLIENT NAME: Conoco Phillips SAMPLED BY: D. Reitz SAMPLE I.D.: MW-5
 LOCATION: Bellingham, WA

DATE PURGED 09/29/09 START (2400hr) 0915 END (2400hr) 0945
 DATE SAMPLED 09/29/09 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) = 13.70

DEPTH TO WATER (feet) = 5.53

WATER COLUMN HEIGHT (feet) = 8.17

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>09/29/09</u>	<u>0920</u>	<u>800</u>	<u>18.18</u>	<u>0.199</u>	<u>5.94</u>	<u>Cl</u>
	<u>0923</u>	<u>500</u>	<u>18.52</u>	<u>0.195</u>	<u>5.98</u>	<u>Cl</u>
	<u>0926</u>	<u>500</u>	<u>18.46</u>	<u>0.193</u>	<u>6.00</u>	<u>Cl</u>
	<u>0929</u>	<u>500</u>	<u>18.55</u>	<u>0.194</u>	<u>6.00</u>	<u>Cl</u>

[Signature] 09/29/09

Calculated Variance of Final Three Samples: 0.09 1.002 0.02
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: 8.00 SAMPLE DTW: 6.02

ANTICIPATED PURGE INTAKE DEPTH: 8.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B
EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: Glass / HCL

PURGING EQUIPMENT:
Horiba Water 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: D. Ritz WELL I.D.: MW-6
 CLIENT NAME: Coraco Phillips SAMPLED BY: D. Ritz SAMPLE I.D.: MW-6
 LOCATION: Bellingham, WA.

DATE PURGED 09/29/09 START (2400hr) 0950 END (2400hr) 1020
 DATE SAMPLED 09/29/09 SAMPLE TIME (2400hr) 1005 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) = 13.90

DEPTH TO WATER (feet) = 7.04

WATER COLUMN HEIGHT (feet) = 6.86

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>09/29/09</u>	<u>0955</u>	<u>800</u>	<u>16.28</u>	<u>0.104</u>	<u>6.15</u>	<u>Clr</u>
	<u>0958</u>	<u>500</u>	<u>16.27</u>	<u>0.105</u>	<u>6.12</u>	<u>Clr</u>
	<u>1001</u>	<u>500</u>	<u>16.19</u>	<u>0.107</u>	<u>6.11</u>	<u>Clr</u>
	<u>1004</u>	<u>500</u>	<u>16.03</u>	<u>0.108</u>	<u>6.10</u>	<u>Clr</u>

[Signature] 09/29/09

Calculated Variance of Final Three Samples: 0.24 0.003 0.02
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: 9.00 SAMPLE DTW: 7.28

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

SAMPLE VESSEL / PRESERVATIVE: Glass / HCL

PURGING EQUIPMENT:
Horiba Water 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: D. Rätz WELL I.D.: MW-1
 CLIENT NAME: Canon Phillips SAMPLED BY: D. Rätz SAMPLE I.D.: MW-1
 LOCATION: Bellingham, WA.

DATE PURGED 09/29/09 START (2400hr) 1135 END (2400hr) 1205
 DATE SAMPLED 09/29/09 SAMPLE TIME (2400hr) 1150 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) = 22.80
 DEPTH TO WATER (feet) = 6.67
 WATER COLUMN HEIGHT (feet) = 16.13 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>09/29/09</u>	<u>1140</u>	<u>800</u>	<u>16.91</u>	<u>0.106</u>	<u>6.16</u>	<u>Clr</u>
<u>↓</u>	<u>1143</u>	<u>500</u>	<u>17.15</u>	<u>0.102</u>	<u>6.09</u>	<u>Clr</u>
<u>↓</u>	<u>1146</u>	<u>500</u>	<u>17.13</u>	<u>0.100</u>	<u>6.09</u>	<u>Clr</u>
<u>↓</u>	<u>1149</u>	<u>500</u>	<u>17.00</u>	<u>0.103</u>	<u>6.08</u>	<u>Clr</u>

Calculated Variance of Final Three Samples: 0.15 0.003 0.01
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: 18.00 SAMPLE DTW: 7.37

ANTICIPATED PURGE INTAKE DEPTH: 18.00 ANALYSES: TPH-G, TPH-D, BTEX & MTBE by 8260B
EDB, EDC, total and dissolved lead

SAMPLE VESSEL / PRESERVATIVE: Glass / HCL

PURGING EQUIPMENT:
Hotibg, Water Meter
Pecistaltic pump Interface probe

SAMPLING EQUIPMENT:
Pecistaltic 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: D. Reitz WELL I.D.: MW-2
 CLIENT NAME: Conoco Phillips SAMPLED BY: D. Reitz SAMPLE I.D.: MW-2
 LOCATION: Bellingham, WA.

DATE PURGED 09/29/09 START (2400hr) 1210 END (2400hr) 1240
 DATE SAMPLED 09/29/09 SAMPLE TIME (2400hr) 1225 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) = 20.90
 DEPTH TO WATER (feet) = 9.38
 WATER COLUMN HEIGHT (feet) = 11.52 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>09/29/09</u>	<u>1215</u>	<u>800</u>	<u>16.23</u>	<u>0.101</u>	<u>6.14</u>	<u>Clr</u>
	<u>1218</u>	<u>500</u>	<u>16.44</u>	<u>0.090</u>	<u>6.13</u>	<u>Clr</u>
	<u>1221</u>	<u>500</u>	<u>16.32</u>	<u>0.091</u>	<u>6.13</u>	<u>Clr</u>
	<u>1224</u>	<u>500</u>	<u>16.21</u>	<u>0.092</u>	<u>6.14</u>	<u>Clr</u>

[Signature] 09/29/09

Calculated Variance of Final Three Samples: 0.23 0.002 0.01
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: 16.00 SAMPLE DTW: 9.58

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

SAMPLE VESSEL / PRESERVATIVE: Glass / HCL

PURGING EQUIPMENT: Horiba Water Meter SAMPLING EQUIPMENT: _____
Peristaltic pump Interface probe 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]* Page 1 of 1

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301495 PURGED BY: D. Reitz WELL I.D.: MW-8
 CLIENT NAME: Conoco Phillips SAMPLED BY: D. Reitz SAMPLE I.D.: MW-8
 LOCATION: Bellingham, WA

DATE PURGED: 09/29/09 START (2400hr): 1240 END (2400hr): 1315
 DATE SAMPLED: 09/29/09 SAMPLE TIME (2400hr): 1255 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) = 17.70
 DEPTH TO WATER (feet) = 8.89
 WATER COLUMN HEIGHT (feet) = 8.81 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>09/29/09</u>	<u>1245</u>	<u>800</u>	<u>18.56</u>	<u>0.167</u>	<u>6.20</u>	<u>Clr</u>
	<u>1248</u>	<u>500</u>	<u>18.82</u>	<u>0.160</u>	<u>6.22</u>	<u>Clr</u>
	<u>1251</u>	<u>500</u>	<u>18.74</u>	<u>0.157</u>	<u>6.22</u>	<u>Clr</u>
	<u>1254</u>	<u>500</u>	<u>18.69</u>	<u>0.155</u>	<u>6.22</u>	<u>Clr</u>
Calculated Variance of Final Three Samples:			<u>0.13</u>	<u>0.005</u>	<u>0</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

DEPTH TO PURGE INTAKE DURING PURGE: 12.00 SAMPLE DTW: 9.14

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

SAMPLE VESSEL / PRESERVATIVE: Glass / HCL

PURGING EQUIPMENT:
Horiba Water 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]

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

October 14, 2009

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

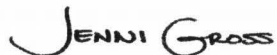
RE: Project: 01571 - Bellingham
Pace Project No.: 252223

Dear Chris Gdak:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 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

cc: Tammy Parise, COP_Stantec Washington

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 01571 - Bellingham
Pace Project No.: 252223

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 01571 - Bellingham
Pace Project No.: 252223

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
252223001	MW-1	EPA 5030B/8260	LPM	9	PASI-S
		NWTPH-Dx	KRK	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
252223002	MW-2	EPA 5030B/8260	LPM	9	PASI-S
		NWTPH-Dx	KRK	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
252223003	MW-3	EPA 5030B/8260	LPM	9	PASI-S
		NWTPH-Dx	KRK	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
252223004	MW-4	EPA 5030B/8260	LPM	9	PASI-S
		NWTPH-Dx	KRK	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
252223005	MW-5	EPA 5030B/8260	LPM	9	PASI-S
		NWTPH-Dx	KRK	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
252223006	MW-6	EPA 5030B/8260	LPM	9	PASI-S
		NWTPH-Dx	KRK	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
252223007	MW-7	EPA 5030B/8260	LPM	9	PASI-S
		NWTPH-Dx	KRK	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
252223008	MW-8	EPA 5030B/8260	LPM	9	PASI-S
		NWTPH-Dx	KRK	4	PASI-S
		NWTPH-Gx	ATH	3	PASI-S
252223009	QCTB	EPA 5030B/8260	LPM	9	PASI-S
		NWTPH-Gx	ATH	3	PASI-S

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 252223

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-1								
Lab ID: 252223001								
Collected: 09/29/09 11:50 Received: 09/30/09 14:05 Matrix: Water								
NWTPH-Dx GCS								
Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range	ND ug/L		77.7	1	10/07/09 10:30	10/10/09 02:03		
Motor Oil Range	ND ug/L		388	1	10/07/09 10:30	10/10/09 02:03	64742-65-0	
n-Octacosane (S)	115 %		50-150	1	10/07/09 10:30	10/10/09 02:03	630-02-4	
o-Terphenyl (S)	112 %		50-150	1	10/07/09 10:30	10/10/09 02:03	84-15-1	
NWTPH-Gx GCV								
Analytical Method: NWTPH-Gx								
Gasoline Range Organics	ND ug/L		50.0	1		10/13/09 00:07		
a,a,a-Trifluorotoluene (S)	122 %		50-150	1		10/13/09 00:07	98-08-8	
4-Bromofluorobenzene (S)	110 %		50-150	1		10/13/09 00:07	460-00-4	
8260 MSV								
Analytical Method: EPA 5030B/8260								
Benzene	ND ug/L		1.0	1		10/08/09 13:06	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/08/09 13:06	100-41-4	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/08/09 13:06	1634-04-4	
Toluene	ND ug/L		1.0	1		10/08/09 13:06	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/08/09 13:06	1330-20-7	
4-Bromofluorobenzene (S)	102 %		78-125	1		10/08/09 13:06	460-00-4	
Dibromofluoromethane (S)	94 %		87-118	1		10/08/09 13:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	94 %		75-125	1		10/08/09 13:06	17060-07-0	
Toluene-d8 (S)	94 %		85-120	1		10/08/09 13:06	2037-26-5	

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-2								
Lab ID: 252223002								
Collected: 09/29/09 12:25 Received: 09/30/09 14:05 Matrix: Water								
NWTPH-Dx GCS								
Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range	ND ug/L		77.7	1	10/07/09 10:30	10/10/09 02:21		
Motor Oil Range	ND ug/L		388	1	10/07/09 10:30	10/10/09 02:21	64742-65-0	
n-Octacosane (S)	115 %		50-150	1	10/07/09 10:30	10/10/09 02:21	630-02-4	
o-Terphenyl (S)	113 %		50-150	1	10/07/09 10:30	10/10/09 02:21	84-15-1	
NWTPH-Gx GCV								
Analytical Method: NWTPH-Gx								
Gasoline Range Organics	ND ug/L		50.0	1		10/13/09 01:17		
a,a,a-Trifluorotoluene (S)	121 %		50-150	1		10/13/09 01:17	98-08-8	
4-Bromofluorobenzene (S)	108 %		50-150	1		10/13/09 01:17	460-00-4	
8260 MSV								
Analytical Method: EPA 5030B/8260								
Benzene	ND ug/L		1.0	1		10/08/09 13:29	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/08/09 13:29	100-41-4	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/08/09 13:29	1634-04-4	
Toluene	ND ug/L		1.0	1		10/08/09 13:29	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/08/09 13:29	1330-20-7	
4-Bromofluorobenzene (S)	99 %		78-125	1		10/08/09 13:29	460-00-4	
Dibromofluoromethane (S)	95 %		87-118	1		10/08/09 13:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	95 %		75-125	1		10/08/09 13:29	17060-07-0	

Date: 10/14/2009 05:29 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 252223

Sample: MW-2	Lab ID: 252223002	Collected: 09/29/09 12:25	Received: 09/30/09 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

8260 MSV	Analytical Method: EPA 5030B/8260							
Toluene-d8 (S)	93 %		85-120	1		10/08/09 13:29	2037-26-5	

Sample: MW-3	Lab ID: 252223003	Collected: 09/29/09 11:15	Received: 09/30/09 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	ND ug/L		78.4	1	10/07/09 10:30	10/10/09 02:39		
Motor Oil Range	ND ug/L		392	1	10/07/09 10:30	10/10/09 02:39	64742-65-0	
n-Octacosane (S)	119 %		50-150	1	10/07/09 10:30	10/10/09 02:39	630-02-4	
o-Terphenyl (S)	113 %		50-150	1	10/07/09 10:30	10/10/09 02:39	84-15-1	

NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND ug/L		50.0	1		10/13/09 01:41		
a,a,a-Trifluorotoluene (S)	114 %		50-150	1		10/13/09 01:41	98-08-8	
4-Bromofluorobenzene (S)	102 %		50-150	1		10/13/09 01:41	460-00-4	

8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND ug/L		1.0	1		10/08/09 13:52	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/08/09 13:52	100-41-4	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/08/09 13:52	1634-04-4	
Toluene	ND ug/L		1.0	1		10/08/09 13:52	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/08/09 13:52	1330-20-7	
4-Bromofluorobenzene (S)	98 %		78-125	1		10/08/09 13:52	460-00-4	
Dibromofluoromethane (S)	95 %		87-118	1		10/08/09 13:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	95 %		75-125	1		10/08/09 13:52	17060-07-0	
Toluene-d8 (S)	94 %		85-120	1		10/08/09 13:52	2037-26-5	

Sample: MW-4	Lab ID: 252223004	Collected: 09/29/09 09:00	Received: 09/30/09 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range	256 ug/L		79.2	1	10/07/09 10:30	10/10/09 02:57		
Motor Oil Range	ND ug/L		396	1	10/07/09 10:30	10/10/09 02:57	64742-65-0	
n-Octacosane (S)	119 %		50-150	1	10/07/09 10:30	10/10/09 02:57	630-02-4	
o-Terphenyl (S)	114 %		50-150	1	10/07/09 10:30	10/10/09 02:57	84-15-1	

NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND ug/L		50.0	1		10/13/09 02:04		
a,a,a-Trifluorotoluene (S)	124 %		50-150	1		10/13/09 02:04	98-08-8	
4-Bromofluorobenzene (S)	112 %		50-150	1		10/13/09 02:04	460-00-4	

ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 252223

Sample: MW-4		Lab ID: 252223004	Collected: 09/29/09 09:00	Received: 09/30/09 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		10/08/09 14:14	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/08/09 14:14	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/08/09 14:14	1634-04-4	
Toluene	ND	ug/L	1.0	1		10/08/09 14:14	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/08/09 14:14	1330-20-7	
4-Bromofluorobenzene (S)	101	%	78-125	1		10/08/09 14:14	460-00-4	
Dibromofluoromethane (S)	96	%	87-118	1		10/08/09 14:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	75-125	1		10/08/09 14:14	17060-07-0	
Toluene-d8 (S)	91	%	85-120	1		10/08/09 14:14	2037-26-5	

Sample: MW-5		Lab ID: 252223005	Collected: 09/29/09 09:30	Received: 09/30/09 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	183	ug/L	77.3	1	10/07/09 10:30	10/10/09 03:15		
Motor Oil Range	ND	ug/L	386	1	10/07/09 10:30	10/10/09 03:15	64742-65-0	
n-Octacosane (S)	114	%	50-150	1	10/07/09 10:30	10/10/09 03:15	630-02-4	
o-Terphenyl (S)	114	%	50-150	1	10/07/09 10:30	10/10/09 03:15	84-15-1	

NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND	ug/L	50.0	1		10/13/09 02:28		
a,a,a-Trifluorotoluene (S)	118	%	50-150	1		10/13/09 02:28	98-08-8	
4-Bromofluorobenzene (S)	109	%	50-150	1		10/13/09 02:28	460-00-4	

8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		10/08/09 14:37	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/08/09 14:37	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		10/08/09 14:37	1634-04-4	
Toluene	ND	ug/L	1.0	1		10/08/09 14:37	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/08/09 14:37	1330-20-7	
4-Bromofluorobenzene (S)	104	%	78-125	1		10/08/09 14:37	460-00-4	
Dibromofluoromethane (S)	97	%	87-118	1		10/08/09 14:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		10/08/09 14:37	17060-07-0	
Toluene-d8 (S)	96	%	85-120	1		10/08/09 14:37	2037-26-5	

Sample: MW-6		Lab ID: 252223006	Collected: 09/29/09 10:05	Received: 09/30/09 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	ND	ug/L	78.4	1	10/07/09 10:30	10/10/09 03:33		
Motor Oil Range	ND	ug/L	392	1	10/07/09 10:30	10/10/09 03:33	64742-65-0	
n-Octacosane (S)	110	%	50-150	1	10/07/09 10:30	10/10/09 03:33	630-02-4	

ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 252223

Sample: MW-6		Lab ID: 252223006	Collected: 09/29/09 10:05	Received: 09/30/09 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
o-Terphenyl (S)	109 %		50-150	1	10/07/09 10:30	10/10/09 03:33	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		10/13/09 02:51		
a,a,a-Trifluorotoluene (S)	105 %		50-150	1		10/13/09 02:51	98-08-8	
4-Bromofluorobenzene (S)	96 %		50-150	1		10/13/09 02:51	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		10/08/09 15:00	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/08/09 15:00	100-41-4	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/08/09 15:00	1634-04-4	
Toluene	ND ug/L		1.0	1		10/08/09 15:00	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/08/09 15:00	1330-20-7	
4-Bromofluorobenzene (S)	102 %		78-125	1		10/08/09 15:00	460-00-4	
Dibromofluoromethane (S)	95 %		87-118	1		10/08/09 15:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	94 %		75-125	1		10/08/09 15:00	17060-07-0	
Toluene-d8 (S)	94 %		85-120	1		10/08/09 15:00	2037-26-5	

Sample: MW-7		Lab ID: 252223007	Collected: 09/29/09 10:40	Received: 09/30/09 14:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	839 ug/L		76.9	1	10/07/09 10:30	10/10/09 03:51		
Motor Oil Range	566 ug/L		385	1	10/07/09 10:30	10/10/09 03:51	64742-65-0	
n-Octacosane (S)	121 %		50-150	1	10/07/09 10:30	10/10/09 03:51	630-02-4	
o-Terphenyl (S)	140 %		50-150	1	10/07/09 10:30	10/10/09 03:51	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	134 ug/L		50.0	1		10/13/09 03:38		
a,a,a-Trifluorotoluene (S)	124 %		50-150	1		10/13/09 03:38	98-08-8	
4-Bromofluorobenzene (S)	115 %		50-150	1		10/13/09 03:38	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		10/08/09 15:22	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/08/09 15:22	100-41-4	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/08/09 15:22	1634-04-4	
Toluene	ND ug/L		1.0	1		10/08/09 15:22	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/08/09 15:22	1330-20-7	
4-Bromofluorobenzene (S)	104 %		78-125	1		10/08/09 15:22	460-00-4	
Dibromofluoromethane (S)	94 %		87-118	1		10/08/09 15:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	94 %		75-125	1		10/08/09 15:22	17060-07-0	
Toluene-d8 (S)	92 %		85-120	1		10/08/09 15:22	2037-26-5	

ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 252223

Sample: MW-8	Lab ID: 252223008	Collected: 09/29/09 12:55	Received: 09/30/09 14:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range	88.5 ug/L		77.7	1	10/07/09 10:30	10/10/09 04:09		
Motor Oil Range	ND ug/L		388	1	10/07/09 10:30	10/10/09 04:09	64742-65-0	
n-Octacosane (S)	121 %		50-150	1	10/07/09 10:30	10/10/09 04:09	630-02-4	
o-Terphenyl (S)	117 %		50-150	1	10/07/09 10:30	10/10/09 04:09	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		10/13/09 04:02		
a,a,a-Trifluorotoluene (S)	112 %		50-150	1		10/13/09 04:02	98-08-8	
4-Bromofluorobenzene (S)	100 %		50-150	1		10/13/09 04:02	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		10/08/09 15:45	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/08/09 15:45	100-41-4	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/08/09 15:45	1634-04-4	
Toluene	ND ug/L		1.0	1		10/08/09 15:45	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/08/09 15:45	1330-20-7	
4-Bromofluorobenzene (S)	102 %		78-125	1		10/08/09 15:45	460-00-4	
Dibromofluoromethane (S)	94 %		87-118	1		10/08/09 15:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	97 %		75-125	1		10/08/09 15:45	17060-07-0	
Toluene-d8 (S)	93 %		85-120	1		10/08/09 15:45	2037-26-5	

Sample: QCTB	Lab ID: 252223009	Collected: 09/29/09 00:00	Received: 09/30/09 14:05	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		10/12/09 23:43		
a,a,a-Trifluorotoluene (S)	115 %		50-150	1		10/12/09 23:43	98-08-8	
4-Bromofluorobenzene (S)	103 %		50-150	1		10/12/09 23:43	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		10/08/09 11:36	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		10/08/09 11:36	100-41-4	
Methyl-tert-butyl ether	ND ug/L		1.0	1		10/08/09 11:36	1634-04-4	
Toluene	ND ug/L		1.0	1		10/08/09 11:36	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		10/08/09 11:36	1330-20-7	
4-Bromofluorobenzene (S)	101 %		78-125	1		10/08/09 11:36	460-00-4	
Dibromofluoromethane (S)	94 %		87-118	1		10/08/09 11:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	95 %		75-125	1		10/08/09 11:36	17060-07-0	
Toluene-d8 (S)	94 %		85-120	1		10/08/09 11:36	2037-26-5	

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 252223

QC Batch: GCV/1273 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 252223001, 252223002, 252223003, 252223004, 252223005, 252223006, 252223007, 252223008, 252223009

METHOD BLANK: 13254 Matrix: Water
Associated Lab Samples: 252223001, 252223002, 252223003, 252223004, 252223005, 252223006, 252223007, 252223008, 252223009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	10/12/09 19:25	
4-Bromofluorobenzene (S)	%	107	50-150	10/12/09 19:25	
a,a,a-Trifluorotoluene (S)	%	121	50-150	10/12/09 19:25	

LABORATORY CONTROL SAMPLE: 13255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	581	116	50-163	
4-Bromofluorobenzene (S)	%			105	50-150	
a,a,a-Trifluorotoluene (S)	%			114	50-150	

SAMPLE DUPLICATE: 13337

Parameter	Units	252223001 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	14.9J		
4-Bromofluorobenzene (S)	%	110	99	10	
a,a,a-Trifluorotoluene (S)	%	122	112	8	

SAMPLE DUPLICATE: 13338

Parameter	Units	252223006 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		
4-Bromofluorobenzene (S)	%	96	111	14	
a,a,a-Trifluorotoluene (S)	%	105	121	14	

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 252223

QC Batch: MSV/1573 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 252223001, 252223002, 252223003, 252223004, 252223005, 252223006, 252223007, 252223008, 252223009

METHOD BLANK: 13152 Matrix: Water
Associated Lab Samples: 252223001, 252223002, 252223003, 252223004, 252223005, 252223006, 252223007, 252223008, 252223009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/08/09 09:15	
Ethylbenzene	ug/L	ND	1.0	10/08/09 09:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/08/09 09:15	
Toluene	ug/L	ND	1.0	10/08/09 09:15	
Xylene (Total)	ug/L	ND	3.0	10/08/09 09:15	
1,2-Dichloroethane-d4 (S)	%	95	75-125	10/08/09 09:15	
4-Bromofluorobenzene (S)	%	102	78-125	10/08/09 09:15	
Dibromofluoromethane (S)	%	94	87-118	10/08/09 09:15	
Toluene-d8 (S)	%	92	85-120	10/08/09 09:15	

LABORATORY CONTROL SAMPLE: 13153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.3	106	75-124	
Ethylbenzene	ug/L	20	19.5	97	76-124	
Methyl-tert-butyl ether	ug/L	20	21.0	105	72-130	
Toluene	ug/L	20	18.0	90	75-124	
Xylene (Total)	ug/L	60	60.1	100	76-123	
1,2-Dichloroethane-d4 (S)	%			95	75-125	
4-Bromofluorobenzene (S)	%			102	78-125	
Dibromofluoromethane (S)	%			101	87-118	
Toluene-d8 (S)	%			89	85-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 13167 13168

Parameter	Units	252233006		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Benzene	ug/L	ND	20	20	20	21.5	21.1	107	105	75-124	2	
Ethylbenzene	ug/L	ND	20	20	20	20.1	19.4	100	97	76-124	3	
Methyl-tert-butyl ether	ug/L	ND	20	20	20	21.4	21.2	107	106	72-130	.8	
Toluene	ug/L	ND	20	20	20	18.2	17.7	91	88	75-124	2	
Xylene (Total)	ug/L	ND	60	60	60	61.9	59.7	103	99	76-123	4	
1,2-Dichloroethane-d4 (S)	%							96	97	75-125		
4-Bromofluorobenzene (S)	%							102	102	78-125		
Dibromofluoromethane (S)	%							101	102	87-118		
Toluene-d8 (S)	%							88	87	85-120		

QUALIFIERS

Project: 01571 - Bellingham
Pace Project No.: 252223

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S Pace Analytical Services - Seattle

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 01571 - Bellingham
Pace Project No.: 252223

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
252223001	MW-1	EPA 3510	OEXT/1562	NWTPH-Dx	GCSV/1275
252223002	MW-2	EPA 3510	OEXT/1562	NWTPH-Dx	GCSV/1275
252223003	MW-3	EPA 3510	OEXT/1562	NWTPH-Dx	GCSV/1275
252223004	MW-4	EPA 3510	OEXT/1562	NWTPH-Dx	GCSV/1275
252223005	MW-5	EPA 3510	OEXT/1562	NWTPH-Dx	GCSV/1275
252223006	MW-6	EPA 3510	OEXT/1562	NWTPH-Dx	GCSV/1275
252223007	MW-7	EPA 3510	OEXT/1562	NWTPH-Dx	GCSV/1275
252223008	MW-8	EPA 3510	OEXT/1562	NWTPH-Dx	GCSV/1275
252223001	MW-1	EPA 5030B/8260	MSV/1573		
252223002	MW-2	EPA 5030B/8260	MSV/1573		
252223003	MW-3	EPA 5030B/8260	MSV/1573		
252223004	MW-4	EPA 5030B/8260	MSV/1573		
252223005	MW-5	EPA 5030B/8260	MSV/1573		
252223006	MW-6	EPA 5030B/8260	MSV/1573		
252223007	MW-7	EPA 5030B/8260	MSV/1573		
252223008	MW-8	EPA 5030B/8260	MSV/1573		
252223009	QCTB	EPA 5030B/8260	MSV/1573		
252223001	MW-1	NWTPH-Gx	GCV/1273		
252223002	MW-2	NWTPH-Gx	GCV/1273		
252223003	MW-3	NWTPH-Gx	GCV/1273		
252223004	MW-4	NWTPH-Gx	GCV/1273		
252223005	MW-5	NWTPH-Gx	GCV/1273		
252223006	MW-6	NWTPH-Gx	GCV/1273		
252223007	MW-7	NWTPH-Gx	GCV/1273		
252223008	MW-8	NWTPH-Gx	GCV/1273		
252223009	QCTB	NWTPH-Gx	GCV/1273		



Sample Condition Upon Receipt

Client Name: stantec-wa

Project # 252223

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

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 4.0, 1.9

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/11/09 AR

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests ^{10/11/09 AR}	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>Water</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. Samples 5 and 6 received with neutral pH (Ambers) - adjusts hold time to 7 days - Analysts notified upon receipt.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Pace Trip Blank Lot # (if purchased):		

Field Data Required? Y / N

Client Notification/ Resolution:

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)