



Stantec

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TOSCO 6380 -

Bellingham

Release 471259

Quarterly Groundwater Monitoring Report - Third Quarter 2010
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.:
212302382

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

September 20, 2010

RECEIVED
SEP 20 2010
WASHINGTON STATE DEPARTMENT OF ECOLOGY

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 2010 (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 August 3, 2010. Groundwater monitoring activities were performed in accordance with Stantec's protocols for groundwater monitoring events (see Appendix A).

Eight groundwater monitoring wells were gauged and sampled (MW-1 through MW-8). 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 5.31 feet (MW-5) to 8.93 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. Historic 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 is relatively flat. Groundwater flow direction appears to be divergent. Based on measured groundwater elevations at MW-3 and MW-5, there appears to be a southeasterly flow component in the southeast corner of the Site, possibly due to influences from subsurface utilities or other structures associated with the adjoining roadway. Across the remainder of the Site, the groundwater flow direction is generally to the northwest at an approximate gradient of 0.006 feet per foot (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) 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.

Analytical results did not exceed Model Toxics Control Act (MTCA) Method A cleanup levels for any of the analyses performed during the reporting period. The TPH-D concentration in MW-7 dropped significantly from the last quarter's results. This is the lowest concentration of TPH-D

in MW-7 since sampling began in January, 2006. The remaining results during this reporting period are generally consistent with the results from other recent groundwater monitoring events.

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 were identified on pages 12 and 13 in the analytical report.

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.

CONCLUSIONS

No exceedances of MTCA Method A cleanup levels were reported for any of the constituents analyzed at any of the locations sampled during the reporting period. The results during this reporting period are generally consistent with the results from other recent groundwater monitoring events.

LIMITATIONS AND CERTIFICATIONS

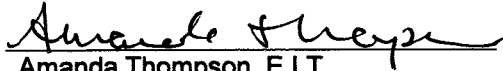
This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the Site. It was prepared for the exclusive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

Stantec

Quarterly Groundwater Monitoring Report - Third Quarter 2010

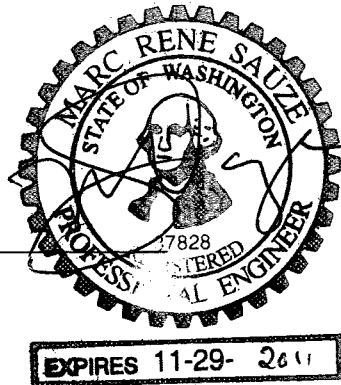
September 20, 2010

Prepared by:


Amanda Thompson, E.I.T.
Staff Engineer

Reviewed by:

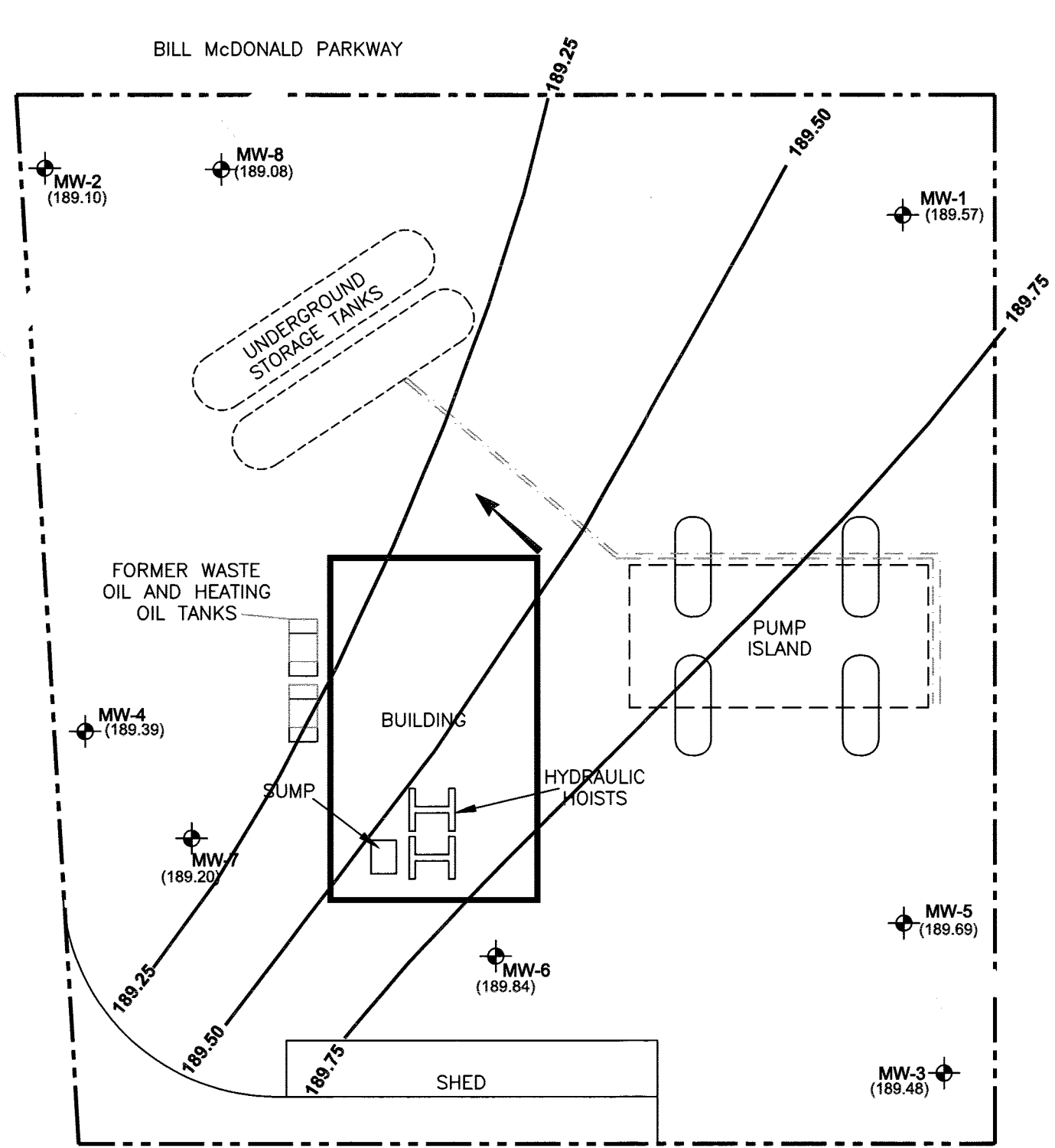
Marc Sauze, P.E.
Senior Engineer



ATTACHMENTS

Table 1	Cumulative Summary of Groundwater Elevations and Sample Analytical Results
Figure 1	Site Plan with Groundwater Elevations (August 3, 2010)
Figure 2	Site Plan with Analytical Results (August 3, 2010)
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

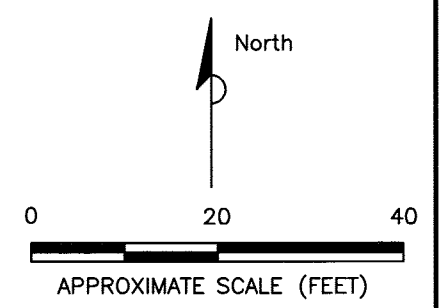
(190.63) GROUNDWATER ELEVATION (FEET)

INFERRED GROUNDWATER FLOW DIRECTION

189.00 GROUNDWATER ELEVATION CONTOUR (FEET)

WELLS MW-1 NOT USED IN CONTOURING DUE TO AN ANOMALY

- NOTES:**
- 1). ALL LOCATIONS ARE APPROXIMATE.
 - 2). CONTOUR INTERVAL = 0.25 FEET
 - 3). GROUNDWATER GRADIENT = 0.006 FT/FT



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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)-2123014952\12302382 - 2010 QRTLY\3Q\10\6380-2010-3Q.dwg|dhellier|Sep 09, 2010 at 13:51|Layout: F1-GWE (3Q10)

 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 GROUNDWATER ELEVATIONS (AUGUST 3, 2010)		FIGURE: 1
	JOB NUMBER: 212302382	DRAWN BY: DJH	CHECKED BY: AT	APPROVED BY: CG

MW-8	12/9/09	2/26/10	6/4/10	8/3/10
TPH-G	57.9	<50.0	<50.0	<50.0
TPH-D	112	136	99	<76.9
TPH-O	<385	496	<392	<385
B	<1.0	<1.0	3.8	3.0
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0	<3.0

MW-2	12/9/09	2/26/10	6/4/10	8/3/10
TPH-G	--	--	--	<50.0
TPH-D	--	--	--	<77.7
TPH-O	--	--	--	<388
B	--	--	--	<1.0
T	--	--	--	<1.0
E	--	--	--	<1.0
X	--	--	--	<3.0

MW-1	12/9/09	2/26/10	6/4/10	8/3/10
TPH-G	--	<50.0	<50.0	<50.0
TPH-D	--	<77.7	187	<76.9
TPH-O	--	<388	<392	<385
B	--	4.4	<1.0	<1.0
T	--	1.5	<1.0	<1.0
E	--	<1.0	<1.0	<1.0
X	--	7.2	<3.0	<3.0

MW-4	12/9/09	2/26/10	6/4/10	8/3/10
TPH-G	<50.0	<50.0	<50.0	<50.0
TPH-D	142	<77.7	81.3	<76.9
TPH-O	<385	<388	<396	<385
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<1.0	<3.0	<3.0

MW-7	12/9/09	2/26/10	6/4/10	8/3/10
TPH-G	169	190	151	119
TPH-D	891	1,120	1,200	181
TPH-O	<385	518	<388	<385
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0	<3.0

MW-6	12/9/09	2/26/10	6/4/10	8/3/10
TPH-G	<50.0	<50.0	<50.0	<50.0
TPH-D	121	<76.9	<78.4	<76.9
TPH-O	<385	<385	<392	<385
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0	<3.0

MW-5	12/9/09	2/26/10	6/4/10	8/3/10
TPH-G	--	63.1	--	141
TPH-D	--	93.6	--	<76.9
TPH-O	--	<385	--	<385
B	--	<1.0	--	<1.0
T	--	<1.0	--	<1.0
E	--	<1.0	--	<1.0
X	--	<3.0	--	<3.0

MW-3	12/9/09	2/26/10	6/4/10	8/3/10
TPH-G	--	--	<50.0	<50.0
TPH-D	--	--	111	<76.9
TPH-O	--	--	<392	<385
B	--	--	<1.0	<1.0
T	--	--	<1.0	<1.0
E	--	--	<1.0	<1.0
X	--	--	<3.0	<3.0

LEGEND

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

ANALYTES

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.

SOURCE:
 BASE MAP FROM: ENVIRONMENTAL RESOLUTIONS, INC.
 (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP--
 06/10/03, PLATE 1, DATED 07/08/03, PROJECT
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 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
 (AUGUST 3, 2010)**

FIGURE:
2

JOB NUMBER: 212302382	DRAWN BY: DJH	CHECKED BY: AT	APPROVED BY: CG	DATE: 8/17/10
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TABLE

TABLE 1
CULMULATIVE SUMMARY OF 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)	
MW1	03/11/99	4.96	--	93.53	<50	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	2.41	--	
98.49	05/25/99	5.33	--	93.16	<50.0	<250	<750*	<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*	<0.500	<0.500	<0.500	<1.00	--	--	--	6.18	--	
	02/10/00	6.10	--	92.39	<50.0	<250	<750*	<0.500	<0.500	<0.500	<1.00	--	--	--	1.75	--	
	02/02/01	5.17	--	93.32	<50.0	588	<750*	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*	1.82	<0.500	33.0	<1.00	--	--	--	<1.00	--	
	12/04/02	7.05	--	91.44	373	511	<568*	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*	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*	<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 ^{b,c}	<1,000 ^{b,c}	11	<0.7	<0.8	<0.8	1	--	--	--	--	--	
06/11/08	5.34	--	93.15	<50	<800 ^{b,c}	<1,000 ^{b,c}	10	<0.5	<0.5	<0.5	1	--	--	--	--	--	
09/10/08	5.30	--	93.19	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	1	--	--	--	--	--	
12/10/08	5.62	--	92.87	<50	<29	<69	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--	--	
03/31/09	5.55	--	92.94	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	
06/17/09	5.80	--	92.89	<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	--	189.12	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	
	12/09/09	6.00	--	189.79	Not part of the sampling schedule this reporting period.												
	02/26/10	5.33	--	190.46	<50.0	<77.7	<388	4.4	1.5	<1.0	7.2	--	--	--	--	--	
	06/04/10	5.16	--	190.63	<50.0	187	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
08/03/10	6.22	--	189.57	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--		

TABLE 1
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		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	<75	<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 ^{5*}	<1,000 ^{5*}	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--	
	06/11/08	8.25	--	92.49	<50	<76 ^b	<95 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
	09/10/08	8.80	--	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	--	92.84	--	--	--	--	--	--	--	--	--	--	--	--	
	06/17/09	8.53	--	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	--	188.65	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	--	--	--	
	12/09/09	7.99	--	190.04	Not part of the sampling schedule this reporting period.											--	--
	02/26/10	8.10	--	189.93	Not part of the sampling schedule this reporting period.											--	--
	06/04/10	7.76	--	190.27	Not part of the sampling schedule this reporting period.											--	--
	08/03/10	8.93	--	189.10	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	

TABLE 1
CULMULATIVE SUMMARY OF 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	0.598	<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	<509*	<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	--	92.73	<50	100 ^b	560 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
	09/10/08	5.30	--	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	--	92.94	--	--	--	--	--	--	--	--	--	--	--	--	
	06/17/09	5.57	--	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	--	189.28	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--	
	12/09/09	5.06	--	190.13	Not part of the sampling schedule this reporting period.											--	--
	02/26/10	5.02	--	190.17	Not part of the sampling schedule this reporting period.											--	--
	06/04/10	4.91	--	190.28	<50.0	111	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
	08/03/10	5.71	--	189.48	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	

**TABLE 1
CUMULATIVE SUMMARY OF 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	0.8	--	--	--	--
	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	--	93.42	<50	<75 ^b	<94 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	6.85	--	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	--	93.27	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/09	7.09	--	92.35	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
186.77	09/29/09	7.71	--	189.06	<50.0	256	<396	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--
	12/09/09	6.53	--	190.24	<50.0	142	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	2/26/2010	6.39	--	190.38	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	6/4/2010	6.19	--	190.58	<50.0	81.3	<396	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	8/3/2010	7.38	--	189.39	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--

TABLE 1
CUMULATIVE SUMMARY OF 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)
MW-5 101.14	1/11/2006	4.04	--	97.10	<48	<75	<94	1.7	<0.2	<0.2	<0.6	--	--	--	<8.4	--	
	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	--	--	--	--
12/09/09		4.33	0.00	190.67	Not part of the sampling schedule this reporting period.											--	--
02/26/10		4.52	0.00	190.48	63.1	93.6	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
06/04/10		4.82	0.00	190.18	Not part of the sampling schedule this reporting period.											--	--
08/03/10		5.31	0.00	189.69	141	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
08/03/10		5.31	0.00	189.69	141	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
MW-6 99.74	1/11/2006	4.89	--	94.85	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	<8.4	--	
	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	
	196.52	09/29/09	7.04	0.00	189.48	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--
12/09/09		5.87	0.00	190.65	<50.0	121	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
02/26/10		5.91	0.00	190.61	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
06/04/10		5.69	0.00	190.83	<50.0	<78.4	<392	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	
08/03/10		6.68	0.00	189.84	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--	

TABLE 1
CULMULATIVE SUMMARY OF 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)	
MW-7 99.64	1/11/2006	6.07	--	93.57	160	780 ^b	<94 ^b	<0.2	<0.2	<0.2	<0.6	2.5	--	--	<8.4	--		
	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	--	92.85	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	480	<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	--	--	--	--		
	196.93	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	
09/29/09		7.97	0.00	188.96	134	839	566	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--		
12/09/09		6.97	0.00	189.96	169	891	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--		
02/26/10		6.74	0.00	190.19	190	1,120	518	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--		
06/04/10		6.50	0.00	190.43	151	1,200	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--		
08/03/10		7.73	0.00	189.20	119	181	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--		
MW-8 102.7	1/11/2006	7.00	--	95.70	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	<8.4	--		
	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	--	--	--	--		
	197.48	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	
09/29/09		8.89	0.00	188.59	<50.0	88.5	<388	<1.0	<1.0	<1.0	<3.0	<1.0	--	--	--	--		
12/09/09		7.40	0.00	190.08	57.9	112	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--		
02/26/10		7.40	0.00	190.08	<50.0	136	496	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--		
06/04/10		7.18	0.00	190.30	<50.0	99	<392	3.8	<1.0	<1.0	<3.0	--	--	--	--	--		
08/03/10		8.40	0.00	189.08	<50.0	<76.9	<385	3.0	<1.0	<1.0	<3.0	--	--	--	--	--		
MTCA Method A Cleanup Levels							1000/800^a	500	500	5	1000	700	1000	20	5	0.01	15	15

**TABLE 1
CULMULATIVE SUMMARY OF 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)

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.

* 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.

* 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
CP 256380 (RM&R 01571) Bellingham, Washington

Name(s) D. Rate Date: 08/03/10 Time of Arrival Call-In: 0800
Arrival Time: 0300 Departure Time: 0930 Time of Departure Call-In: 0900
Who did you call? I. Parise

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. Station

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

0300 Arrive on job site. Don appropriate p.p.e.
Set-up decon. station. Perform tailgate safety meeting. Purchase ice.

0310 Initiate gauging of physical measurements at 8 GWM wells prior to 3010 GWM sample procedures

0420 Complete gauging procedures & initiate 3010 GWM sample procedures.

0830 Complete 3010 GWM sample procedures. Decon. equipment and release purge water / decon. rinsates into staged drum. Label drum.

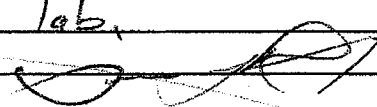
0845 Pack sample coolers & load equipment into truck

0900 Call-in to office. Check-out with site contact

0910 Complete daily documentation.

0930 Depart job site.

1100 Drop-off samples at lab.

 08/03/10

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: D. Ratz WELL I.D.: MW-1
 CLIENT NAME: C.O.P. SAMPLED BY: D. Ratz SAMPLE I.D.: MW-1
 LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 08/03/10 START (2400hr) 0525 END (2400hr) 0550
 DATE SAMPLED 08/03/10 SAMPLE TIME (2400hr) 0540 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) = 6.22
 WATER COLUMN HEIGHT (feet) = 16.58 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>08/03/10</u>	<u>0530</u>	<u>200</u>	<u>19.7</u>	<u>0.073</u>	<u>6.03</u>	<u>Cloudy</u>
	<u>0533</u>	<u>500</u>	<u>19.8</u>	<u>0.069</u>	<u>6.05</u>	<u>Cloudy</u>
↓	<u>0536</u>	<u>500</u>	<u>20.5</u>	<u>0.069</u>	<u>6.04</u>	<u>Cloudy</u>
	<u>0539</u>	<u>500</u>	<u>20.8</u>	<u>0.069</u>	<u>6.04</u>	<u>Cloudy</u>
Calculated Variance of Final Three Samples:			<u>0.10</u>	<u>0</u>	<u>0.01</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

DEPTH TO PURGE INTAKE DURING PURGE: 18.00 SAMPLE DTW: 6.54

ANTICIPATED PURGE INTAKE DEPTH: 18.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

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] Page 1 of 1

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: D. Reitz WELL I.D.: MW-2
 CLIENT NAME: C.O.P. SAMPLED BY: D. Reitz SAMPLE I.D.: MW-2
 LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 08/03/10 START (2400hr) 0425 END (2400hr) 0450
 DATE SAMPLED 08/03/10 SAMPLE TIME (2400hr) 0440 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) = 8.93
 WATER COLUMN HEIGHT (feet) = 11.87 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>08/03/10</u>	<u>0430</u>	<u>500</u>	<u>20.4</u>	<u>0.067</u>	<u>6.12</u>	<u>Clr</u>
	<u>0433</u>	<u>500</u>	<u>18.4</u>	<u>0.063</u>	<u>6.08</u>	<u>Clr</u>
	<u>0436</u>	<u>500</u>	<u>18.6</u>	<u>0.062</u>	<u>6.07</u>	<u>Clr</u>
	<u>0439</u>	<u>500</u>	<u>18.8</u>	<u>0.062</u>	<u>6.08</u>	<u>Clr</u>
Calculated Variance of Final Three Samples:				<u>0.4</u>	<u>0.001</u>	<u>0.01</u>
Acceptable Variance Limits:				<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>

[Signature] 08/03/10

DEPTH TO PURGE INTAKE DURING PURGE: 16.00 SAMPLE DTW: 9.01

ANTICIPATED PURGE INTAKE DEPTH: 16.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT:	SAMPLING EQUIPMENT:
<u>Horiba water meter</u> <u>Peristaltic pump Interface probe</u>	<u>Peristaltic pump</u>
Flow Through Cell Disconnected Prior to Sample Collection?: YES <u>X</u> 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 #: 212302382 PURGED BY: D. Ritz WELL I.D.: MW-5
 CLIENT NAME: C.O.P. SAMPLED BY: D. Ritz SAMPLE I.D.: MW-5
 LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 08/03/10 START (2400hr) 0455 END (2400hr) 0520
 DATE SAMPLED 08/03/10 SAMPLE TIME (2400hr) 0510 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) = 5.31
 WATER COLUMN HEIGHT (feet) = 8.39 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>08/03/10</u>	<u>0500</u>	<u>800</u>	<u>21.1</u>	<u>0.011</u>	<u>6.05</u>	<u>Ch</u>
	<u>0503</u>	<u>500</u>	<u>21.6</u>	<u>0.011</u>	<u>6.03</u>	<u>Ch</u>
	<u>0506</u>	<u>500</u>	<u>21.9</u>	<u>0.011</u>	<u>6.04</u>	<u>Ch</u>
	<u>0509</u>	<u>500</u>	<u>21.9</u>	<u>0.011</u>	<u>6.04</u>	<u>Ch</u>
Calculated Variance of Final Three Samples:			<u>0.3</u>	<u>0</u>	<u>0.01</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

DEPTH TO PURGE INTAKE DURING PURGE: 9.00 SAMPLE DTW: 5.70

ANTICIPATED PURGE INTAKE DEPTH: 9.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT:

SAMPLING EQUIPMENT:

Horiba water meter
Peristaltic pump interface probe Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO 0

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 #: 212302382 PURGED BY: D. Ritz WELL I.D.: MW-6
 CLIENT NAME: C.O.P. SAMPLED BY: D. Ritz SAMPLE I.D.: MW-6
 LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 08/03/10 START (2400hr) 0655 END (2400hr) 0720
 DATE SAMPLED 08/03/10 SAMPLE TIME (2400hr) 0710 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) = 13.80

DEPTH TO WATER (feet) = 6.68

WATER COLUMN HEIGHT (feet) = 7.12

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>08/03/10</u>	<u>0700</u>	<u>800</u>	<u>18.10</u>	<u>0.084</u>	<u>6.18</u>	<u>Clr</u>
	<u>0703</u>	<u>500</u>	<u>18.6</u>	<u>0.083</u>	<u>6.16</u>	<u>Clr</u>
	<u>0706</u>	<u>500</u>	<u>19.6</u>	<u>0.083</u>	<u>6.17</u>	<u>Clr</u>
	<u>0709</u>	<u>500</u>	<u>18.8</u>	<u>0.083</u>	<u>6.17</u>	<u>Clr</u>

Calculated Variance of Final Three Samples: 0.4 0 0.01
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: 9.00 SAMPLE DTW: 6.86

ANTICIPATED PURGE INTAKE DEPTH: 9.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT: Hot/cold 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]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: D. Reitz WELL I.D.: MW-7
 CLIENT NAME: C.O.P. SAMPLED BY: D. Reitz SAMPLE I.D.: MW-7
 LOCATION: 200 S. 36th St. Bellingham, WA.

DATE PURGED 08/03/10 START (2400hr) 0800 END (2400hr) 0830
 DATE SAMPLED 08/03/10 SAMPLE TIME (2400hr) 0815 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) = 7.73
 WATER COLUMN HEIGHT (feet) = 10.47 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (ML)	TEMP. (degrees E)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>08/03/10</u>	<u>0805</u>	<u>200</u>	<u>17.4</u>	<u>0.083</u>	<u>6.15</u>	<u>Clc</u>
	<u>0808</u>	<u>500</u>	<u>17.9</u>	<u>0.083</u>	<u>6.13</u>	<u>Clc</u>
	<u>0811</u>	<u>500</u>	<u>18.6</u>	<u>0.082</u>	<u>6.14</u>	<u>Clc</u>
	<u>0814</u>	<u>500</u>	<u>18.4</u>	<u>0.083</u>	<u>6.14</u>	<u>Clc</u>
<i>[Signature]</i> <u>08/03/10</u>						
Calculated Variance of Final Three Samples:			<u>0.7</u>	<u>0.001</u>	<u>0.01</u>	
Acceptable Variance Limits:			<u>≤ 10%</u>	<u>≤ 3%</u>	<u>≤ 0.1</u>	

DEPTH TO PURGE INTAKE DURING PURGE: 13.00 SAMPLE DTW: 7.89

ANTICIPATED PURGE INTAKE DEPTH: 13.00 ANALYSES: TPH-G, TPH-D, BTEX by 8260B

SAMPLE VESSEL / PRESERVATIVE: _____

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

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 #
 4512896507
ConocoPhillips AOC#
 01571

DATE: 08/03/10
 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:	
TELEPHONE: (425) 298-1023	FAX: (425) 298-1020	E-MAIL: chris.gdak@stantec.com		LAB USE ONLY:			
SAMPLER NAME(S) (Print): David Reitz		CONSULTANT PROJECT NUMBER: 212302382		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 Point name only required if different from Sample ID

LAB USE ONLY	Field Point Name	Sample ID	SAMPLING		MATRIX	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx w/silica gel cleanup	BTEX by 8260B	REQUESTED ANALYSES										TEMPERATURE ON RECEIPT C°			
			DATE	TIME																			
		MW-1	08/03/10	0540	GW	7	X	X	X														
		MW-2	"	0640	GW	7	X	X	X														
		MW-3	"	0610	GW	7	X	X	X														
		MW-4	"	0640	GW	7	X	X	X														
		MW-5	"	0510	GW	7	X	X	X														
		MW-6	"	0710	GW	7	X	X	X														
		MW-7	"	0815	GW	7	X	X	X														
		MW-8	"	0745	GW	7	X	X	X														
		QCTB			DI	6	X		X														

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

TEMPERATURE ON RECEIPT C°

40-mL VOAs, preserved with HCl

Relinquished by (Signature): 	Received by (Signature): 	Date: 08/03/10	Time: 1100
Relinquished by (Signature):	Received by (Signature):	Date: 08/03/10	Time: 11:00
Relinquished by (Signature):	Received by (Signature):	Date:	Time:

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



Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

August 12, 2010

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

RE: Project: 01571 - Bellingham
Pace Project No.: 254437

Dear Chris Gdak:

Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2010. 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

REPORT OF LABORATORY ANALYSIS

Page 1 of 13

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CERTIFICATIONS

Project: 01571 - Bellingham
Pace Project No.: 254437

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01230
Alaska Drinking Water Micro Certification #: WA01230

California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C1229

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 01571 - Bellingham
Pace Project No.: 254437

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
254437001	MW-1	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	AY1	3	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S
254437002	MW-2	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	AY1	3	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S
254437003	MW-3	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	AY1	3	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S
254437004	MW-4	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	AY1	3	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S
254437005	MW-5	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	AY1	3	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S
254437006	MW-6	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	AY1	3	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S
254437007	MW-7	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	AY1	3	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S
254437008	MW-8	NWTPH-Dx	ERB	4	PASI-S
		NWTPH-Gx	AY1	3	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S
254437009	QCTB	NWTPH-Gx	AY1	3	PASI-S
		EPA 5030B/8260	LNH	8	PASI-S

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 01571 - Bellingham

Pace Project No.: 254437

Sample: MW-1	Lab ID: 254437001	Collected: 08/03/10 05:40	Received: 08/03/10 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND ug/L		76.9	1	08/06/10 09:00	08/10/10 01:09		
Motor Oil Range SG	ND ug/L		385	1	08/06/10 09:00	08/10/10 01:09	64742-65-0	
n-Octacosane (S) SG	105 %		50-150	1	08/06/10 09:00	08/10/10 01:09	630-02-4	
o-Terphenyl (S) SG	96 %		50-150	1	08/06/10 09:00	08/10/10 01:09	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		08/03/10 21:16		
a,a,a-Trifluorotoluene (S)	96 %		50-150	1		08/03/10 21:16	98-08-8	
4-Bromofluorobenzene (S)	84 %		50-150	1		08/03/10 21:16	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		08/03/10 16:44	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/03/10 16:44	100-41-4	
Toluene	ND ug/L		1.0	1		08/03/10 16:44	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		08/03/10 16:44	1330-20-7	
4-Bromofluorobenzene (S)	100 %		80-120	1		08/03/10 16:44	460-00-4	
Dibromofluoromethane (S)	110 %		80-122	1		08/03/10 16:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	112 %		80-124	1		08/03/10 16:44	17060-07-0	
Toluene-d8 (S)	103 %		80-123	1		08/03/10 16:44	2037-26-5	

Sample: MW-2	Lab ID: 254437002	Collected: 08/03/10 04:40	Received: 08/03/10 11:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND ug/L		77.7	1	08/06/10 09:00	08/10/10 01:26		
Motor Oil Range SG	ND ug/L		388	1	08/06/10 09:00	08/10/10 01:26	64742-65-0	
n-Octacosane (S) SG	105 %		50-150	1	08/06/10 09:00	08/10/10 01:26	630-02-4	
o-Terphenyl (S) SG	89 %		50-150	1	08/06/10 09:00	08/10/10 01:26	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		08/03/10 22:28		
a,a,a-Trifluorotoluene (S)	101 %		50-150	1		08/03/10 22:28	98-08-8	
4-Bromofluorobenzene (S)	95 %		50-150	1		08/03/10 22:28	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		08/03/10 17:07	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/03/10 17:07	100-41-4	
Toluene	ND ug/L		1.0	1		08/03/10 17:07	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		08/03/10 17:07	1330-20-7	
4-Bromofluorobenzene (S)	99 %		80-120	1		08/03/10 17:07	460-00-4	
Dibromofluoromethane (S)	114 %		80-122	1		08/03/10 17:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	110 %		80-124	1		08/03/10 17:07	17060-07-0	
Toluene-d8 (S)	106 %		80-123	1		08/03/10 17:07	2037-26-5	

Date: 08/12/2010 10:42 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 254437

Sample: MW-3		Lab ID: 254437003	Collected: 08/03/10 06:10	Received: 08/03/10 11:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND ug/L		76.9	1	08/06/10 09:00	08/10/10 01:42		
Motor Oil Range SG	ND ug/L		385	1	08/06/10 09:00	08/10/10 01:42	64742-65-0	
n-Octacosane (S) SG	104 %		50-150	1	08/06/10 09:00	08/10/10 01:42	630-02-4	
o-Terphenyl (S) SG	93 %		50-150	1	08/06/10 09:00	08/10/10 01:42	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		08/03/10 22:52		
a,a,a-Trifluorotoluene (S)	97 %		50-150	1		08/03/10 22:52	98-08-8	
4-Bromofluorobenzene (S)	92 %		50-150	1		08/03/10 22:52	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		08/03/10 17:29	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/03/10 17:29	100-41-4	
Toluene	ND ug/L		1.0	1		08/03/10 17:29	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		08/03/10 17:29	1330-20-7	
4-Bromofluorobenzene (S)	100 %		80-120	1		08/03/10 17:29	460-00-4	
Dibromofluoromethane (S)	111 %		80-122	1		08/03/10 17:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	109 %		80-124	1		08/03/10 17:29	17060-07-0	
Toluene-d8 (S)	105 %		80-123	1		08/03/10 17:29	2037-26-5	

Sample: MW-4		Lab ID: 254437004	Collected: 08/03/10 06:40	Received: 08/03/10 11:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND ug/L		76.9	1	08/06/10 09:00	08/10/10 01:58		
Motor Oil Range SG	ND ug/L		385	1	08/06/10 09:00	08/10/10 01:58	64742-65-0	
n-Octacosane (S) SG	103 %		50-150	1	08/06/10 09:00	08/10/10 01:58	630-02-4	
o-Terphenyl (S) SG	93 %		50-150	1	08/06/10 09:00	08/10/10 01:58	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		08/03/10 23:15		
a,a,a-Trifluorotoluene (S)	97 %		50-150	1		08/03/10 23:15	98-08-8	
4-Bromofluorobenzene (S)	94 %		50-150	1		08/03/10 23:15	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		08/03/10 17:52	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/03/10 17:52	100-41-4	
Toluene	ND ug/L		1.0	1		08/03/10 17:52	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		08/03/10 17:52	1330-20-7	
4-Bromofluorobenzene (S)	97 %		80-120	1		08/03/10 17:52	460-00-4	
Dibromofluoromethane (S)	114 %		80-122	1		08/03/10 17:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	109 %		80-124	1		08/03/10 17:52	17060-07-0	
Toluene-d8 (S)	101 %		80-123	1		08/03/10 17:52	2037-26-5	

ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 254437

Sample: MW-5	Lab ID: 254437005	Collected: 08/03/10 05:10	Received: 08/03/10 11:00	Matrix: Water
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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND	ug/L	76.9	1	08/06/10 09:00	08/10/10 02:14		
Motor Oil Range SG	ND	ug/L	385	1	08/06/10 09:00	08/10/10 02:14	64742-65-0	
n-Octacosane (S) SG	94	%	50-150	1	08/06/10 09:00	08/10/10 02:14	630-02-4	
o-Terphenyl (S) SG	87	%	50-150	1	08/06/10 09:00	08/10/10 02:14	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	141	ug/L	50.0	1		08/03/10 23:39		
a,a,a-Trifluorotoluene (S)	102	%	50-150	1		08/03/10 23:39	98-08-8	
4-Bromofluorobenzene (S)	93	%	50-150	1		08/03/10 23:39	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		08/03/10 18:14	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/03/10 18:14	100-41-4	
Toluene	ND	ug/L	1.0	1		08/03/10 18:14	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/03/10 18:14	1330-20-7	
4-Bromofluorobenzene (S)	96	%	80-120	1		08/03/10 18:14	460-00-4	
Dibromofluoromethane (S)	116	%	80-122	1		08/03/10 18:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	80-124	1		08/03/10 18:14	17060-07-0	
Toluene-d8 (S)	104	%	80-123	1		08/03/10 18:14	2037-26-5	

Sample: MW-6	Lab ID: 254437006	Collected: 08/03/10 07:10	Received: 08/03/10 11:00	Matrix: Water
---------------------	--------------------------	---------------------------	--------------------------	---------------

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND	ug/L	76.9	1	08/06/10 09:00	08/10/10 03:02		
Motor Oil Range SG	ND	ug/L	385	1	08/06/10 09:00	08/10/10 03:02	64742-65-0	
n-Octacosane (S) SG	102	%	50-150	1	08/06/10 09:00	08/10/10 03:02	630-02-4	
o-Terphenyl (S) SG	94	%	50-150	1	08/06/10 09:00	08/10/10 03:02	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND	ug/L	50.0	1		08/04/10 00:03		
a,a,a-Trifluorotoluene (S)	97	%	50-150	1		08/04/10 00:03	98-08-8	
4-Bromofluorobenzene (S)	86	%	50-150	1		08/04/10 00:03	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		08/03/10 18:36	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/03/10 18:36	100-41-4	
Toluene	ND	ug/L	1.0	1		08/03/10 18:36	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/03/10 18:36	1330-20-7	
4-Bromofluorobenzene (S)	92	%	80-120	1		08/03/10 18:36	460-00-4	
Dibromofluoromethane (S)	110	%	80-122	1		08/03/10 18:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	80-124	1		08/03/10 18:36	17060-07-0	
Toluene-d8 (S)	99	%	80-123	1		08/03/10 18:36	2037-26-5	

ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 254437

Sample: MW-7		Lab ID: 254437007	Collected: 08/03/10 08:15	Received: 08/03/10 11:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	181 ug/L		77.7	1	08/06/10 09:00	08/10/10 03:19		
Motor Oil Range SG	ND ug/L		388	1	08/06/10 09:00	08/10/10 03:19	64742-65-0	
n-Octacosane (S) SG	107 %		50-150	1	08/06/10 09:00	08/10/10 03:19	630-02-4	
o-Terphenyl (S) SG	98 %		50-150	1	08/06/10 09:00	08/10/10 03:19	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	119 ug/L		50.0	1		08/04/10 00:27		
a,a,a-Trifluorotoluene (S)	96 %		50-150	1		08/04/10 00:27	98-08-8	
4-Bromofluorobenzene (S)	97 %		50-150	1		08/04/10 00:27	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND ug/L		1.0	1		08/03/10 18:59	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/03/10 18:59	100-41-4	
Toluene	ND ug/L		1.0	1		08/03/10 18:59	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		08/03/10 18:59	1330-20-7	
4-Bromofluorobenzene (S)	95 %		80-120	1		08/03/10 18:59	460-00-4	
Dibromofluoromethane (S)	112 %		80-122	1		08/03/10 18:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	106 %		80-124	1		08/03/10 18:59	17060-07-0	
Toluene-d8 (S)	105 %		80-123	1		08/03/10 18:59	2037-26-5	

Sample: MW-8		Lab ID: 254437008	Collected: 08/03/10 07:45	Received: 08/03/10 11:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS SG		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510						
Diesel Range SG	ND ug/L		76.9	1	08/06/10 09:00	08/10/10 03:35		
Motor Oil Range SG	ND ug/L		385	1	08/06/10 09:00	08/10/10 03:35	64742-65-0	
n-Octacosane (S) SG	96 %		50-150	1	08/06/10 09:00	08/10/10 03:35	630-02-4	
o-Terphenyl (S) SG	87 %		50-150	1	08/06/10 09:00	08/10/10 03:35	84-15-1	
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
Gasoline Range Organics	ND ug/L		50.0	1		08/04/10 00:51		
a,a,a-Trifluorotoluene (S)	99 %		50-150	1		08/04/10 00:51	98-08-8	
4-Bromofluorobenzene (S)	94 %		50-150	1		08/04/10 00:51	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	3.0 ug/L		1.0	1		08/03/10 19:21	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		08/03/10 19:21	100-41-4	
Toluene	ND ug/L		1.0	1		08/03/10 19:21	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		08/03/10 19:21	1330-20-7	
4-Bromofluorobenzene (S)	95 %		80-120	1		08/03/10 19:21	460-00-4	
Dibromofluoromethane (S)	113 %		80-122	1		08/03/10 19:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	109 %		80-124	1		08/03/10 19:21	17060-07-0	
Toluene-d8 (S)	105 %		80-123	1		08/03/10 19:21	2037-26-5	

ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 254437

Sample: QCTB **Lab ID: 254437009** Collected: 08/03/10 00:00 Received: 08/03/10 11:00 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		08/03/10 19:41		
a,a,a-Trifluorotoluene (S)	103	%	50-150	1		08/03/10 19:41	98-08-8	
4-Bromofluorobenzene (S)	94	%	50-150	1		08/03/10 19:41	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	1.0	1		08/03/10 15:59	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/03/10 15:59	100-41-4	
Toluene	ND	ug/L	1.0	1		08/03/10 15:59	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/03/10 15:59	1330-20-7	
4-Bromofluorobenzene (S)	105	%	80-120	1		08/03/10 15:59	460-00-4	
Dibromofluoromethane (S)	113	%	80-122	1		08/03/10 15:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	80-124	1		08/03/10 15:59	17060-07-0	
Toluene-d8 (S)	102	%	80-123	1		08/03/10 15:59	2037-26-5	

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 254437

QC Batch: OEXT/2453 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 254437001, 254437002, 254437003, 254437004, 254437005, 254437006, 254437007, 254437008

METHOD BLANK: 35498 Matrix: Water
Associated Lab Samples: 254437001, 254437002, 254437003, 254437004, 254437005, 254437006, 254437007, 254437008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	ug/L	ND	80.0	08/09/10 21:06	
Motor Oil Range SG	ug/L	ND	400	08/09/10 21:06	
n-Octacosane (S) SG	%	101	50-150	08/09/10 21:06	
o-Terphenyl (S) SG	%	91	50-150	08/09/10 21:06	

LABORATORY CONTROL SAMPLE & LCSD: 35499 35500

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range SG	ug/L	5000	4360	4170	87	83	51-147	4	30	
Motor Oil Range SG	ug/L	5000	4640	4570	93	91	20-160	2	30	
n-Octacosane (S) SG	%				105	102	50-150			
o-Terphenyl (S) SG	%				104	101	50-150			

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 254437

QC Batch: GCV/1731 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 254437001, 254437002, 254437003, 254437004, 254437005, 254437006, 254437007, 254437008, 254437009

METHOD BLANK: 35377 Matrix: Water
Associated Lab Samples: 254437001, 254437002, 254437003, 254437004, 254437005, 254437006, 254437007, 254437008, 254437009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	08/03/10 18:30	
4-Bromofluorobenzene (S)	%	111	50-150	08/03/10 18:30	
a,a,a-Trifluorotoluene (S)	%	115	50-150	08/03/10 18:30	

LABORATORY CONTROL SAMPLE: 35378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	250	291	116	50-163	
4-Bromofluorobenzene (S)	%			111	50-150	
a,a,a-Trifluorotoluene (S)	%			114	50-150	

SAMPLE DUPLICATE: 35466

Parameter	Units	254415007 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		
4-Bromofluorobenzene (S)	%	102	92	10	
a,a,a-Trifluorotoluene (S)	%	109	102	7	

SAMPLE DUPLICATE: 35467

Parameter	Units	254437001 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	15.4J		
4-Bromofluorobenzene (S)	%	84	87	3	
a,a,a-Trifluorotoluene (S)	%	96	98	2	

QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 254437

QC Batch: MSV/2808 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 254437001, 254437002, 254437003, 254437004, 254437005, 254437006, 254437007, 254437008, 254437009

METHOD BLANK: 35363 Matrix: Water
Associated Lab Samples: 254437001, 254437002, 254437003, 254437004, 254437005, 254437006, 254437007, 254437008, 254437009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/03/10 12:59	
Ethylbenzene	ug/L	ND	1.0	08/03/10 12:59	
Toluene	ug/L	ND	1.0	08/03/10 12:59	
Xylene (Total)	ug/L	ND	3.0	08/03/10 12:59	
1,2-Dichloroethane-d4 (S)	%	103	80-124	08/03/10 12:59	
4-Bromofluorobenzene (S)	%	98	80-120	08/03/10 12:59	
Dibromofluoromethane (S)	%	110	80-122	08/03/10 12:59	
Toluene-d8 (S)	%	100	80-123	08/03/10 12:59	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 35364 35365									
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Benzene	ug/L	20	19.3	18.0	97	90	75-124	7	30		
Ethylbenzene	ug/L	20	18.4	18.1	92	91	76-124	2	30		
Toluene	ug/L	20	18.0	17.9	90	89	75-124	.9	30		
Xylene (Total)	ug/L	60	60.3	58.3	100	97	76-123	3	30		
1,2-Dichloroethane-d4 (S)	%				105	109	80-124				
4-Bromofluorobenzene (S)	%				104	107	80-120				
Dibromofluoromethane (S)	%				116	109	80-122				
Toluene-d8 (S)	%				104	108	80-123				

QUALIFIERS

Project: 01571 - Bellingham
Pace Project No.: 254437

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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.: 254437

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
254437001	MW-1	EPA 3510	OEXT/2453	NWTPH-Dx	GCSV/1775
254437002	MW-2	EPA 3510	OEXT/2453	NWTPH-Dx	GCSV/1775
254437003	MW-3	EPA 3510	OEXT/2453	NWTPH-Dx	GCSV/1775
254437004	MW-4	EPA 3510	OEXT/2453	NWTPH-Dx	GCSV/1775
254437005	MW-5	EPA 3510	OEXT/2453	NWTPH-Dx	GCSV/1775
254437006	MW-6	EPA 3510	OEXT/2453	NWTPH-Dx	GCSV/1775
254437007	MW-7	EPA 3510	OEXT/2453	NWTPH-Dx	GCSV/1775
254437008	MW-8	EPA 3510	OEXT/2453	NWTPH-Dx	GCSV/1775
254437001	MW-1	NWTPH-Gx	GCV/1731		
254437002	MW-2	NWTPH-Gx	GCV/1731		
254437003	MW-3	NWTPH-Gx	GCV/1731		
254437004	MW-4	NWTPH-Gx	GCV/1731		
254437005	MW-5	NWTPH-Gx	GCV/1731		
254437006	MW-6	NWTPH-Gx	GCV/1731		
254437007	MW-7	NWTPH-Gx	GCV/1731		
254437008	MW-8	NWTPH-Gx	GCV/1731		
254437009	QCTB	NWTPH-Gx	GCV/1731		
254437001	MW-1	EPA 5030B/8260	MSV/2808		
254437002	MW-2	EPA 5030B/8260	MSV/2808		
254437003	MW-3	EPA 5030B/8260	MSV/2808		
254437004	MW-4	EPA 5030B/8260	MSV/2808		
254437005	MW-5	EPA 5030B/8260	MSV/2808		
254437006	MW-6	EPA 5030B/8260	MSV/2808		
254437007	MW-7	EPA 5030B/8260	MSV/2808		
254437008	MW-8	EPA 5030B/8260	MSV/2808		
254437009	QCTB	EPA 5030B/8260	MSV/2808		



Sample Condition Upon Receipt

Client Name: Stantec

Project # Bellingham
WO# 254437

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 _____ Temp. Blank Yes No

Thermometer Used 132013 or 101731962 or 226099 Type of Ice: Wet Blue None Samples on Ice, cooling process has begun

Cooler Temperature 2.1, 1.0 Biological Tissue is Frozen: Yes No
Temp should be above freezing $\leq 6^{\circ}\text{C}$ Comments: _____

Date and initials of person examining contents: NS 08/03/10

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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exeptions: <input checked="" type="checkbox"/> VOA, coliform, TOC, O&G		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.
3 Trip Blanks Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		16.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Jenny Gross

Date: 8/3/10

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)

Sample Container Count

CLIENT: Stantec NO# 254437 Bellingham



COC PAGE 1 of 1
COC ID#

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	Comments
1	6	14										
2	6	1										
3	6	1										
4	6	1										
5	6	1										
6	6	1										
7	6	1										
8	6	1										
9	6											
10												
11												
12												Trip Blank? <u>yes</u>

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1 liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic	VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber vial	WGFU	4oz clear soll jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFY	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial		
BP2O	500mL NaOH plastic		I	Wipe/Swab		