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Quarterly Groundwater Monitoring Report - First 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

April 5, 2010

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 First 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 February 26, 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 (MW-1 through MW-8) and six groundwater monitoring wells were sampled (MW-1 and MW-4 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 4.52 feet (MW-5) to 8.10 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 may suggest a depression that transects northeast to southwest through the central portion of the Site. Groundwater flow direction appears to be divergent directed generally to the northwest and south at an approximate groundwater gradient of 0.001 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.

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 1,120 micrograms per liter (µg/L), which exceeds the MTCA Method A cleanup level of 500 µg/L.
- TPH-O was detected in MW-7 at a concentration of 518 µg/L, which exceeds the MTCA Method A cleanup level of 500 µg/L.

The 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. It does not appear as though QA/QC concerns were identified 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

The concentrations of TPH-D and TPH-O in MW-7 exceeded the applicable MTCA Method A cleanup levels. No other 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 remaining 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

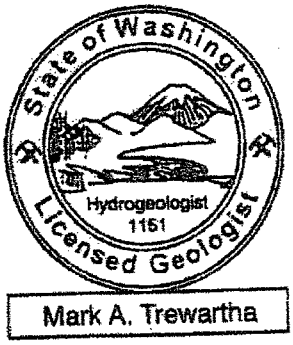
third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the Site existing at the time of the field investigations. No other warranties, expressed or implied are made by Stantec.

Prepared by:

Tammy Parise
Staff Scientist

Reviewed by:

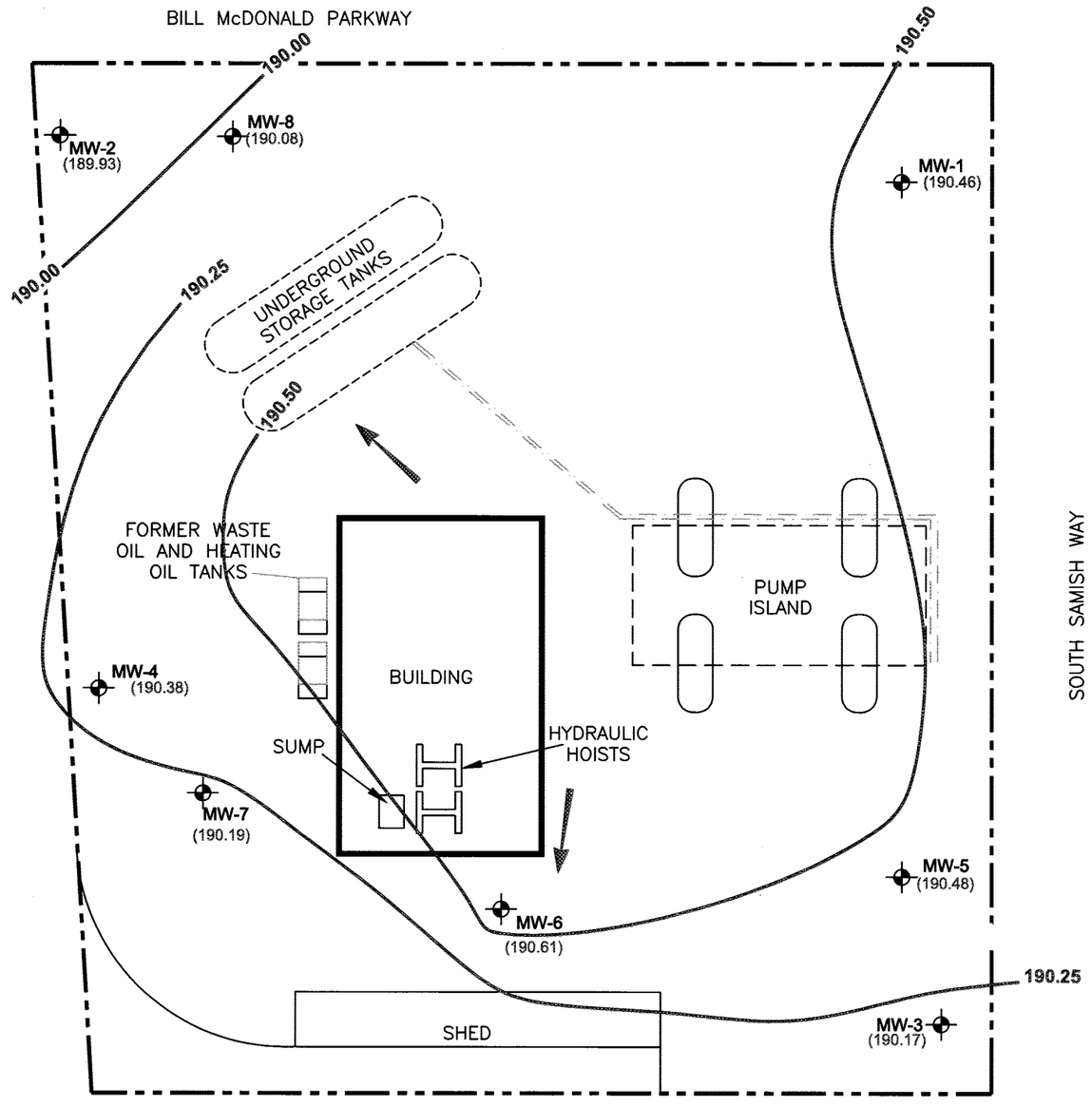
Mark Trewartha, R.G.
Senior Hydrogeologist



ATTACHMENTS

Table 1	Cumulative Summary of Groundwater Elevations and Sample Analytical Results
Figure 1	Site Plan with Groundwater Elevations (February 26, 2010)
Figure 2	Site Plan with Analytical Results (February 26, 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

(190.46) GROUNDWATER ELEVATION (FEET)

INFERRED GROUNDWATER FLOW DIRECTION

190.25 GROUNDWATER ELEVATION CONTOUR (FEET)

NOTES:

1). ALL LOCATIONS ARE APPROXIMATE.

2). CONTOUR INTERVAL = 0.25 FEET

3). GROUNDWATER GRADIENT = 0.001 FT/FT

North

0 20 40

APPROXIMATE SCALE (FEET)

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

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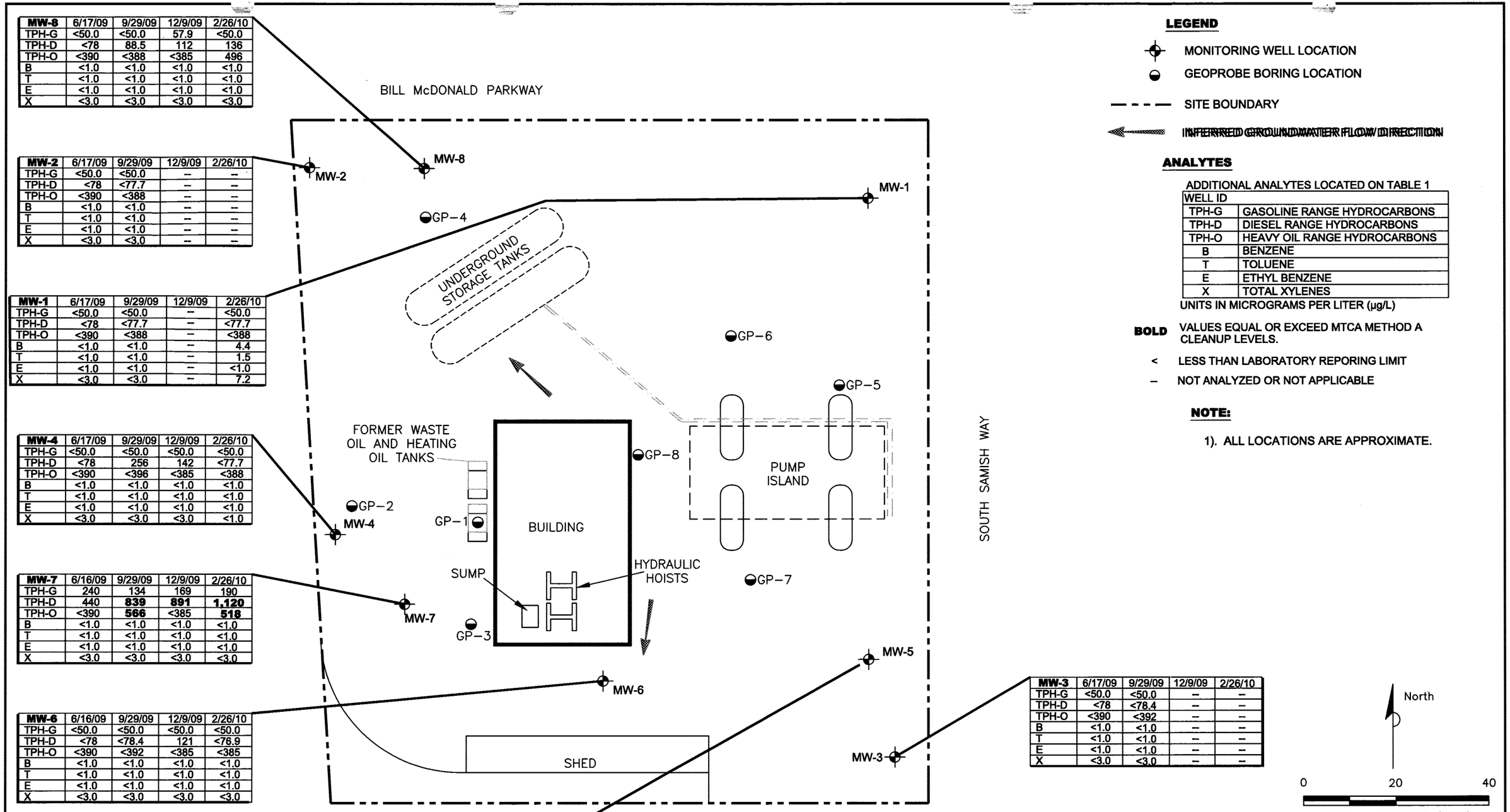
FOR: ConocoPhillips
FACILITY NO. 256380 (RM&R 1571)
200 SOUTH 36th STREET
BELLINGHAM, WASHINGTON

SITE PLAN WITH GROUNDWATER ELEVATIONS (FEBRUARY 26, 2010)

FIGURE: 1

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302382	DJH	TP	CG	3/10/10

FILEPATH:K:\1-CLIENTS\ConocoPhillips\01CP\1571-Bellingham(6380)-212301495\212302382 - 2010 QRTLY\1Q10\6380-2010-1Q.dwg|dheller|Mar 24, 2010 at 16:01|Layout: F1-GWE (1Q10)



MW-8	6/17/09	9/29/09	12/9/09	2/26/10
TPH-G	<50.0	<50.0	57.9	<50.0
TPH-D	<78	88.5	112	136
TPH-O	<390	<388	<385	496
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-2	6/17/09	9/29/09	12/9/09	2/26/10
TPH-G	<50.0	<50.0	–	–
TPH-D	<78	<77.7	–	–
TPH-O	<390	<388	–	–
B	<1.0	<1.0	–	–
T	<1.0	<1.0	–	–
E	<1.0	<1.0	–	–
X	<3.0	<3.0	–	–

MW-1	6/17/09	9/29/09	12/9/09	2/26/10
TPH-G	<50.0	<50.0	–	<50.0
TPH-D	<78	<77.7	–	<77.7
TPH-O	<390	<388	–	<388
B	<1.0	<1.0	–	4.4
T	<1.0	<1.0	–	1.5
E	<1.0	<1.0	–	<1.0
X	<3.0	<3.0	–	7.2

MW-4	6/17/09	9/29/09	12/9/09	2/26/10
TPH-G	<50.0	<50.0	<50.0	<50.0
TPH-D	<78	256	142	<77.7
TPH-O	<390	<396	<385	<388
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	<1.0

MW-7	6/16/09	9/29/09	12/9/09	2/26/10
TPH-G	240	134	169	190
TPH-D	440	**839**	**891**	**1,120**
TPH-O	<390	**566**	<385	**518**
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	6/16/09	9/29/09	12/9/09	2/26/10
TPH-G	<50.0	<50.0	<50.0	<50.0
TPH-D	<78	<78.4	121	<76.9
TPH-O	<390	<392	<385	<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	6/16/09	9/29/09	12/9/09	2/26/10
TPH-G	<50.0	<50.0	–	63.1
TPH-D	<78	183	–	93.6
TPH-O	<390	<386	–	<385
B	<1.0	<1.0	–	<1.0
T	<1.0	<1.0	–	<1.0
E	<1.0	<1.0	–	<1.0
X	<3.0	<3.0	–	<3.0

MW-3	6/17/09	9/29/09	12/9/09	2/26/10
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	–	–

LEGEND

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

ANALYTES

ADDITIONAL ANALYTES LOCATED ON TABLE 1

WELL ID	
TPH-G	GASOLINE RANGE HYDROCARBONS
TPH-D	DIESEL RANGE HYDROCARBONS
TPH-O	HEAVY OIL RANGE HYDROCARBONS
B	BENZENE
T	TOLUENE
E	ETHYL BENZENE
X	TOTAL XYLENES

UNITS IN MICROGRAMS PER LITER (µg/L)

BOLD VALUES EQUAL OR EXCEED MTCA METHOD A CLEANUP LEVELS.

< LESS THAN LABORATORY REPORING LIMIT

– NOT ANALYZED OR NOT APPLICABLE

NOTE:

1). ALL LOCATIONS ARE APPROXIMATE.

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

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200 SOUTH 36th STREET
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SITE PLAN WITH ANALYTICAL RESULTS (FEBRUARY 26 2010)

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
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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	
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	03/11/99	4.96	--	93.53	<50	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	2.41	--
98.49	05/25/99	5.33	--	93.16	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	08/12/99	6.66	--	91.83	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	12/07/99	6.10	--	92.39	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	6.18	--
	02/10/00	6.10	--	92.39	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	1.75	--
	02/02/01	5.17	--	93.32	<50.0	588	<750[e]	**12.4**	1.02	1.10	2.77	--	--	--	--	<1.00
	02/08/02	5.77	--	92.72	**838**	**1,600**	<500	**128**	2.15	85.4	6.55	--	--	--	7.70	<1.00
	09/20/02	6.27	--	92.22	197	**1,320**	<588[e]	1.82	<0.500	33.0	<1.00	--	--	--	<1.00	--
	12/04/02	7.05	--	91.44	373	511	<568[e]	**106**	1.32	1.39	5.41	--	--	--	4.65	--
	03/05/03	5.70	--	92.79	168	<250	<500	**28.3**	1.70	3.55	5.87	--	--	--	4.90	--
	06/10/03	5.92	--	92.57	400	<250	<500	**36.9**	2.43	30.5	6.97	--	--	--	**17.1**	--
	09/03/03	6.30	--	92.19	258	301	<588[e]	1.91	3.22	4.30	5.25	--	--	--	8.72	--
	12/12/03	5.530	--	92.960	204	**700**	304	2.45	<0.500	<0.500	<1.500	--	--	--	<5.0	--
	03/24/04	6.11	--	92.38	163	<126	<251	**12.6**	<1.00	<1.00	<3.00	--	--	--	14.6	--
	6/17/2004	5.10	--	93.39	<50.0	<118	<237	4.98	<0.500	<0.500	<1.50	--	--	--	--	<10.0
	9/23/2004	5.28	--	93.21	190	<267	<535[e]	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	5.42	--	93.07	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	5.73	--	92.76	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	6.10	--	92.39	<100	<236	<472	<1	<1	<1	<3	1.26	--	--	--	<15
	09/15/05	6.60	--	91.89	<48	<160	<200	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/05	5.94	--	92.55	<48	170	110	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	03/10/06	5.34	--	93.15	<48	<76	<95	0.6	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	8.88	--	89.61	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	1.3	--	--	--	--
	03/07/07	UNABLE TO GAUGE OR SAMPLE;PUBLIC WORKS TRUCKS PARKED OVER WELL.														
	06/01/07	5.47	--	93.02	<50	--	--	<0.5	<0.7	<0.8	<0.8	1.0	--	--	--	--
	09/06/07	6.01	--	92.48	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	0.5	--	--	--	--
	12/03/07	6.63	--	91.86	<50	<400[c]	<500[c]	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--
	03/05/08	5.34	--	93.15	<50[d]	<800[c,e]	<1,000[c,e]	**11**	<0.7	<0.8	<0.8	1	--	--	--	--
	06/11/08	5.34	0.00	93.15	<50	<800[b,c,e]	<1,000[b,c,e]	**10**	<0.5	<0.5	<0.5	1	--	--	--	--
	09/10/08	5.30	0.00	93.19	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	1	--	--	--	--
	12/10/08	5.62	0.00	92.87	<50	<29	<69	<0.5	<0.7	<0.8	<0.8	--	--	--	--	--
	03/31/09	5.55	0.00	92.94	<50.0	<83	<420	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--
	06/17/09	5.80	0.00	92.69	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
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	--	--	--	--
	12/09/09	6.00	0.00	189.79	Not part of the sampling schedule this reporting period.								--	--	--	--
	02/26/10	5.33	0.00	190.46	<50.0	<77.7	<388	4.4	1.5	<1.0	7.2	--	--	--	--	--

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

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW2	03/11/99	7.93	--	92.81	<50	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	**162**	--
100.74	05/25/99	8.18	--	92.56	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	08/12/99	8.94	--	91.80	<50.0	281	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--
	12/07/99	8.04	--	92.70	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	**17.0**	--
	02/10/00	8.32	--	92.42	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	**49.1**	--
	02/02/01	6.40	--	94.34	<50.0	<250	<750[e]	<0.500	<0.500	<0.500	<1.00	--	--	--	--	<1.00
	02/08/02	7.77	--	92.97	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	**40.6**	<1.00
	09/20/02	9.23	--	91.51	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	<1.00	--
	12/04/02	9.15	--	91.59	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	2.89	--
	03/05/03	8.28	--	92.46	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	**19.8**	--
	06/10/03	8.56	--	92.18	<50.0	<284	<568[a]	<0.500	1.36	<0.500	2.53	--	--	--	**40.1**	--
	09/03/03	9.13	--	91.61	<80.0	<298	<595[e]	0.829	1.25	0.519	2.49	--	--	--	**33.3**	--
	12/12/03	8.120	--	92.62	<50.0	<119	<237	<0.250	<0.500	<0.500	<1.500	--	--	--	<5.0	--
	03/24/04	8.13	--	92.61	<100	<124	<248	<1.00	<1.00	<1.00	<3.00	--	--	--	**21.3**	
	6/17/2004	8.13	--	92.61	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	--	--	--	--	<10.0
	9/23/2004	8.33	--	92.41	<50	<271	<542[e]	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	7.82	--	92.92	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	8.34	--	92.40	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	8.66	--	92.08	<100	<238	<475	<1	<1	<1	<3	<1	--	--	--	<15
	9/15/2005	5.40	--	95.34	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/2005	8.44	--	92.30	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	3/10/2006	8.28	--	92.46	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	8.71	--	92.03	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--
	03/07/07	7.80	--	92.94	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	8.38	--	92.36	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	9.06	--	91.68	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	6.69	--	94.05	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	8.05	--	92.69	<50	<800[c,e]	<1,000[c,e]	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	8.25	0.00	92.49	<50	<76[b]	<95[b]	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	8.80	0.00	91.94	<50	<78	<97	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	Removed from sampling event this quarter.				--	--	--	--	--	--	--	--	--	--	--
	03/31/09	7.90	0.00	92.84	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/09	8.53	0.00	92.21	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
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	--	--	--	--
	12/09/09	7.99	0.00	190.04	Not part of the sampling schedule this reporting period.								--	--	--	--
	02/26/10	8.10	0.00	189.93	Not part of the sampling schedule this reporting period.								--	--	--	--

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

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW3	03/11/99	4.93	--	92.91	<50	<250	<750[a]	<0.500	<0.500	<0.500	<1.00	--	--	--	6.35	--
97.84	05/25/99	5.19	--	92.65	210	383	<750[a]	<0.500	<0.500	3.04	3.93	--	--	--	--	--
	08/12/99	5.70	--	92.14	56.3	<250	<750[a]	<0.500	<0.500	0.732	1.84	--	--	--	--	--
	12/07/99	5.03	--	92.81	94.7	<250	<750[a]	<0.500	0.598	<0.500	<1.00	--	--	--	4.40	--
	02/10/00	4.92	--	92.92	<50.0	<250	<750[a]	<0.500	<0.500	<0.500	<1.00	--	--	--	**17.6**	--
	02/02/01	4.76	--	93.08	63.0	413	<750[a]	<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[c]	<0.50	<0.50	<0.50	<1.0	--	--	--	<10.0	--
	12/29/2004	4.53	--	93.31	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	--	--	<10.0
	3/4/2005	5.02	--	92.82	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	--	--	<10.0	--
	6/9/2005	5.25	--	92.59	<100	<238	<475	<1	<1	<1	<3	<1	--	--	--	<15
	9/15/2005	7.20	--	90.64	<48	<75	<93	<0.5	<0.5	<0.5	<1.5	--	--	--	--	<0.87
	12/15/2005	5.09	--	92.75	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	3/10/2006	4.75	--	93.09	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	5.40	--	92.44	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--	--	--
	03/07/07	4.42	--	93.42	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	4.94	--	92.90	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	09/06/07	5.43	--	92.41	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	4.70	--	93.14	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	4.89	--	92.95	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	5.11	0.00	92.73	<50	100[b]	**560**[b]	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	5.30	0.00	92.54	<50	<78	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	Removed from sampling event this quarter.			--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	4.90	0.00	92.94	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/09	5.57	0.00	92.27	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
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	--	--	--	--
	12/09/09	5.06	0.00	190.13	Not part of the sampling schedule this reporting period.								--	--	--	--
	02/26/10	5.02	0.00	190.17	Not part of the sampling schedule this reporting period.								--	--	--	--

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

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW4	03/11/99	6.39	--	93.05	<50	<250	<750[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	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	--	--	--	--
	12/09/09	6.53	0.00	190.24	<50.0	142	<385	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--
	2/26/2010	6.39	0.00	190.38	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	--	--	--	--	--

TABLE 1
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ConocoPhillips Facility No. 256380
200 South 36th Street
Bellingham, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW-5	1/11/2006	4.04	--	97.10	<48	<75	<94	1.7	<0.2	<0.2	<0.6	--	--	--	<8.4	--
101.14	3/10/2006	3.81	--	97.33	65	<75	<94	13	0.2	<0.2	<0.6	--	--	--	--	--
	06/30/06	4.46	--	96.68	57	<76	<95	8.6	<0.2	<0.2	<0.6	<5.0	--	--	--	--
	03/07/07	3.48	--	97.66	<48	<76	<94	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/01/07	4.10	--	97.04	<50	--	--	<0.5	<0.7	<0.8	<0.8	0.6	--	--	--	--
	09/06/07	4.43	--	96.71	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/03/07	4.64	--	96.50	<50	99	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	03/05/08	4.36	--	96.78	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	06/11/08	4.21	0.00	96.93	<50	91	<94	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
	09/10/08	4.30	0.00	96.84	<50	<78	<98	<0.5	<0.7	<0.8	<0.8	<0.5	--	--	--	--
	12/10/08	Removed from sampling event this quarter.			--	--	--	--	--	--	--	--	--	--	--	--
	03/31/09	4.45	0.00	96.69	--	--	--	--	--	--	--	--	--	--	--	--
	06/16/09	4.80	0.00	96.34	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<0.010	<1.0	<1.0
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	--	--	--	--	--
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
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	--	--	--	--	--

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

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons							Lead	
TOC Elevation	Sample Date	Depth to Water	LPH	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDC (µg/L)	EDB (µg/L)	Total Pb (µg/L)	Dissolved Pb (µg/L)
MW-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**	**880**	<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
196.93	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	--	--	--	--	--
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	--	--	--	--
	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	--	--	--	--	--
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	
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)

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

APPENDIX A
FIELD AND LABORATORY PROCEDURES

STANTEC MONITORING WELL GAUGING, PURGING AND SAMPLING PROCEDURES

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

Purging Procedures

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

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

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

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

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

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

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

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

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

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

Sampling Procedures

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

Reference:

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

APPENDIX B
FIELD DATA SHEETS

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

Name(s) D. Reitz Date: 02/26/10 Time of Arrival Call-In: 0800

Arrival Time: 0800 Departure Time: 1300 Time of Departure Call-In 1250

Who did you call? C. Gdak

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

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

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

0800 Arrive on site. Purchase ice. Check-in with site-contact. Call-in to office. Don appropriate p.p.e.
0810 Perform tailgate safety meeting.
0815 Initiate gauging of physical measurements at 8 gwm wells.
0850 Complete gauging procedures. Initiate 1Q10 GWM sample procedures at 6 gwm wells.
1210 Complete 1Q10 GWM sample procedures. Decon. Equipment and release purge water / decon rinsates into staged drum. Label drum.
1230 Pack sample coolers & load equipment into truck.
1248 Check-out with site-contact. Call-in to office.
1300 Depart job site
1500 Drop-off samples at lab.

02/26/10

Stantec Consulting Corporation

HYDROLOGIC DATA SHEET

Gauge Date: 02/26/10 **Project Name:** CP RM&R 1571 Bellingham

Field Technician: David Reitz **Project Number:** 212302382

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

Flow through cell calibrated Y X N ____

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

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
MW-1		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0815	—	5.33	21.70	Y	N	Y	
MW-2		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0820	—	8.10	20.70	NS	N	NS	
MW-3		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0825	—	5.02	21.00	NS	N	NS	
MW-4		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0845	—	6.39	20.40	Y	N	Y	
MW-5		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0830	—	4.52	13.70	Y	N	Y	
MW-6		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0835	—	5.91	13.90	Y	N	Y	
MW-7		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0850	—	6.74	18.20	Y	N	Y	
MW-8		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	0840	—	7.40	17.60	Y	N	Y	

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: D. Reitz WELL I.D.: MW-1

CLIENT NAME: Conoco Phillips SAMPLED BY: D. Reitz SAMPLE I.D.: MW-1

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

DATE PURGED 02/26/10 START (2400hr) 0855 END (2400hr) 0920

DATE SAMPLED 02/26/10 SAMPLE TIME (2400hr) 0910 LOW-FLOW USED X

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
	X						
Casing Volume: (liters per foot)	(0.64)	(1.44)	(2.45)	(3.86)	(5.68)	(9.84)	( )

DEPTH TO BOTTOM (feet) = 21.70

DEPTH TO WATER (feet) = 5.33

WATER COLUMN HEIGHT (feet) = 16.37 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/26/10	0900	800	13.0	0.065	6.14	Clr
↓	0903	500	12.9	0.065	6.16	Clr
	0906	500	13.3	0.066	6.21	Clr
	0909	500	13.4	0.067	6.24	Clr

DR 02/26/10

	TEMP.	CONDUCTIVITY	pH
Calculated Variance of Final Three Samples:	0.6	0.002	0.08
Acceptable Variance Limits:	≤ 10%	≤ 3%	≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: 17.00 SAMPLE DTW: 6.37

ANTICIPATED PURGE INTAKE DEPTH: 17.00 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]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: David Reitz WELL I.D.: MW-5

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

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

DATE PURGED 02/26/10 START (2400hr) 0930 END (2400hr) 0955

DATE SAMPLED 02/26/10 SAMPLE TIME (2400hr) 0945 LOW-FLOW USED X

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

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

Casing Volume: (liters per foot)

DEPTH TO BOTTOM (feet) = 13.70

DEPTH TO WATER (feet) = 4.52

WATER COLUMN HEIGHT (feet) = 9.18

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/26/10	0935	500	11.6	0.099	6.47	Clr
	0938	500	11.7	0.010	6.48	Clr
	0941	500	11.8	0.010	6.49	Clr
↓	0944	500	11.9	0.010	6.50	Clr
					02/26/10	
Calculated Variance of Final Three Samples:			0.2	Ø	0.02	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 9.00 SAMPLE DTW: 5.00

ANTICIPATED PURGE INTAKE DEPTH: 9.00 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]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: D. Reitz WELL I.D.: MW-4

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

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

DATE PURGED 02/26/10 START (2400hr) 1000 END (2400hr) 1030

DATE SAMPLED 02/26/10 SAMPLE TIME (2400hr) 1015 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) = 20.40

DEPTH TO WATER (feet) = 6.39

WATER COLUMN HEIGHT (feet) = 14.01 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/26/10	1005	600	11.9	0.064	6.50	Clr
	1008	500	12.1	0.063	6.38	Clr
	1011	500	12.0	0.063	6.32	Clr
	1014	500	12.2	0.063	6.29	Clr
					02/26/10	
Calculated Variance of Final Three Samples:			0.2	0	0.09	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 15.00 SAMPLE DTW: 6.62

ANTICIPATED PURGE INTAKE DEPTH: 15.00 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: D. Reitz

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: David Reitz WELL I.D.: MW-6

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

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

DATE PURGED 02/26/10 START (2400hr) 1030 END (2400hr) 1100

DATE SAMPLED 02/26/10 SAMPLE TIME (2400hr) 1045 LOW-FLOW USED X

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

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

Casing Volume: (liters per foot)

DEPTH TO BOTTOM (feet) = 13.90

DEPTH TO WATER (feet) = 5.91

WATER COLUMN HEIGHT (feet) = 7.99

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/26/10	1035	800	12.1	0.083	6.49	Clr
	1038	500	12.2	0.083	6.47	Clr
	1041	500	12.2	0.083	6.46	Clr
	1044	500	12.3	0.082	6.44	Clr
Calculated Variance of Final Three Samples:			0.1	0.001	0.03	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

02/26/10

DEPTH TO PURGE INTAKE DURING PURGE: 9.00 SAMPLE DTW: 6.11

ANTICIPATED PURGE INTAKE DEPTH: 9.00 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]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: David Reitz WELL I.D.: MW-8

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

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

DATE PURGED 02/26/10 START (2400hr) 1105 END (2400hr) 1135

DATE SAMPLED 02/26/10 SAMPLE TIME (2400hr) 1120 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) = 17.60

DEPTH TO WATER (feet) = 7.40

WATER COLUMN HEIGHT (feet) = 10.20 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/26/10	1110	500	12.6	0.062	6.81	Clr
	1113	500	12.7	0.062	6.78	Clr
	1116	500	12.6	0.062	6.77	Clr
	1119	500	12.7	0.061	6.76	Clr
					02/26/10	
Calculated Variance of Final Three Samples:			0.1	0.001	0.08	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 12.00 SAMPLE DTW: 7.65

ANTICIPATED PURGE INTAKE DEPTH: 12.00 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]

STANTEC Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302382 PURGED BY: David Reitz WELL I.D.: MW-7

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

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

DATE PURGED 02/26/10 START (2400hr) 1140 END (2400hr) 1210

DATE SAMPLED 02/26/10 SAMPLE TIME (2400hr) 1155 LOW-FLOW USED X

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

CASING DIAMETER:	2"	3"	4"	5"	6"	8"	Other
	X						
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) = 6.74

WATER COLUMN HEIGHT (feet) = 11.46

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/26/10	1145	800	11.8	0.087	6.43	Clr
↓	1148	500	11.8	0.087	6.45	Clr
	1151	500	11.9	0.087	6.44	Clr
	1154	500	11.9	0.087	6.44	Clr
Calculated Variance of Final Three Samples:			0.1	∅	0.01	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

[signature] 02/26/10

DEPTH TO PURGE INTAKE DURING PURGE: 13.00 SAMPLE DTW: 6.99

ANTICIPATED PURGE INTAKE DEPTH: 13.00 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

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: 02/26/10
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: / LAB USE ONLY
TELEPHONE: (425) 298-1023 / FAX: (425) 298-1020	E-MAIL: chris.gdak@stantec.com		
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

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

LAB USE ONLY	Field Point Name	Sample ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx	BTEX by 8260B
	MW-1	MW-1	02/26/10	0910	GW	7	X	X	X
	MW-4	MW-4	"	1015	GW	7	X	X	X
	MW-5	MW-5	"	0945	GW	7	X	X	X
	MW-6	MW-6	"	1045	GW	7	X	X	X
	MW-7	MW-7	"	1155	GW	7	X	X	X
	MW-8	MW-8	"	1120	GW	7	X	X	X
	QCTB	QCTB			DI	6	X		X

TEMPERATURE ON RECEIPT C°

40-mL VOAs, preserved with HCl

Relinquished by: (Signature)	Received by: (Signature)	Date: 02/26/10	Time: 1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

9/10/03 Revision

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

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(206)767-5060

March 05, 2010

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

RE: Project: 01571 - Bellingham
Pace Project No.: 253154

Dear Chris Gdak:
Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 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.

Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice, indicating the cooldown process had begun.

One of six VOA vials for the Trip Blank were received outside of the EPA requirements for headspace. Sufficient sample volume was provided for analysis requested, results were not effected.

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: Andrea Donnell, COP_Stantec Washington
Tammy Parise, COP_Stantec Washington
Linda Rawlins, COP_Stantec Oregon

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CERTIFICATIONS

Project: 01571 - Bellingham
Pace Project No.: 253154

Washington Certification IDs
940 South Harney Street Seattle, WA 98108
Washington Certification #: C1229
Oregon Certification #: WA200007
Alaska CS Certification #: UST-025
California Certification #: 01153CA
Alaska Drinking Water Micro Certification #: WA01230
Alaska Drinking Water VOC Certification #: WA01-09
Florida/NELAP Certification #: E87617

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SAMPLE ANALYTE COUNT

Project: 01571 - Bellingham
Pace Project No.: 253154

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
253154001	**MW-1**	NWTPH-Dx	DMT	4	PASI-S
		NWTPH-Gx	LNH	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253154002	**MW-4**	NWTPH-Dx	DMT	4	PASI-S
		NWTPH-Gx	LNH	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253154003	**MW-5**	NWTPH-Dx	DMT	4	PASI-S
		NWTPH-Gx	LNH	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253154004	**MW-6**	NWTPH-Dx	DMT	4	PASI-S
		NWTPH-Gx	LNH	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253154005	**MW-7**	NWTPH-Dx	DMT	4	PASI-S
		NWTPH-Gx	LNH	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253154006	**MW-8**	NWTPH-Dx	DMT	4	PASI-S
		NWTPH-Gx	LNH	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S
253154007	**Trip Blank**	NWTPH-Gx	LNH	3	PASI-S
		EPA 5030B/8260	LPM	8	PASI-S

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 253154

Sample: MW-1 **Lab ID: 253154001** Collected: 02/26/10 09:10 Received: 02/26/10 15:00 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	77.7	1	03/02/10 15:45	03/03/10 17:04		
Motor Oil Range	ND	ug/L	388	1	03/02/10 15:45	03/03/10 17:04	64742-65-0	
n-Octacosane (S)	109	%	50-150	1	03/02/10 15:45	03/03/10 17:04	630-02-4	
o-Terphenyl (S)	104	%	50-150	1	03/02/10 15:45	03/03/10 17:04	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		03/02/10 20:38		
a,a,a-Trifluorotoluene (S)	98	%	50-150	1		03/02/10 20:38	98-08-8	
4-Bromofluorobenzene (S)	87	%	50-150	1		03/02/10 20:38	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	**4.4**	ug/L	1.0	1		03/02/10 01:53	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/10 01:53	100-41-4	
Toluene	**1.5**	ug/L	1.0	1		03/02/10 01:53	108-88-3	
Xylene (Total)	**7.2**	ug/L	3.0	1		03/02/10 01:53	1330-20-7	
4-Bromofluorobenzene (S)	102	%	80-120	1		03/02/10 01:53	460-00-4	
Dibromofluoromethane (S)	94	%	80-122	1		03/02/10 01:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	80-124	1		03/02/10 01:53	17060-07-0	
Toluene-d8 (S)	94	%	80-123	1		03/02/10 01:53	2037-26-5	

Sample: MW-4 **Lab ID: 253154002** Collected: 02/26/10 10:15 Received: 02/26/10 15:00 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	77.7	1	03/02/10 15:45	03/03/10 17:20		
Motor Oil Range	ND	ug/L	388	1	03/02/10 15:45	03/03/10 17:20	64742-65-0	
n-Octacosane (S)	109	%	50-150	1	03/02/10 15:45	03/03/10 17:20	630-02-4	
o-Terphenyl (S)	98	%	50-150	1	03/02/10 15:45	03/03/10 17:20	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		03/02/10 21:51		
a,a,a-Trifluorotoluene (S)	96	%	50-150	1		03/02/10 21:51	98-08-8	
4-Bromofluorobenzene (S)	84	%	50-150	1		03/02/10 21:51	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/02/10 02:16	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/10 02:16	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/10 02:16	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/02/10 02:16	1330-20-7	
4-Bromofluorobenzene (S)	101	%	80-120	1		03/02/10 02:16	460-00-4	
Dibromofluoromethane (S)	95	%	80-122	1		03/02/10 02:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-124	1		03/02/10 02:16	17060-07-0	
Toluene-d8 (S)	93	%	80-123	1		03/02/10 02:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 253154

Sample: MW-5 **Lab ID: 253154003** Collected: 02/26/10 09:45 Received: 02/26/10 15:00 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	**93.6**	ug/L	76.9	1	03/02/10 15:45	03/03/10 18:09		
Motor Oil Range	ND	ug/L	385	1	03/02/10 15:45	03/03/10 18:09	64742-65-0	
n-Octacosane (S)	114	%	50-150	1	03/02/10 15:45	03/03/10 18:09	630-02-4	
o-Terphenyl (S)	104	%	50-150	1	03/02/10 15:45	03/03/10 18:09	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	**63.1**	ug/L	50.0	1		03/02/10 22:15		
a,a,a-Trifluorotoluene (S)	92	%	50-150	1		03/02/10 22:15	98-08-8	
4-Bromofluorobenzene (S)	82	%	50-150	1		03/02/10 22:15	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/02/10 02:39	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/10 02:39	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/10 02:39	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/02/10 02:39	1330-20-7	
4-Bromofluorobenzene (S)	102	%	80-120	1		03/02/10 02:39	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		03/02/10 02:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	80-124	1		03/02/10 02:39	17060-07-0	
Toluene-d8 (S)	95	%	80-123	1		03/02/10 02:39	2037-26-5	

Sample: MW-6 **Lab ID: 253154004** Collected: 02/26/10 10:45 Received: 02/26/10 15:00 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	76.9	1	03/02/10 15:45	03/03/10 18:25		
Motor Oil Range	ND	ug/L	385	1	03/02/10 15:45	03/03/10 18:25	64742-65-0	
n-Octacosane (S)	114	%	50-150	1	03/02/10 15:45	03/03/10 18:25	630-02-4	
o-Terphenyl (S)	104	%	50-150	1	03/02/10 15:45	03/03/10 18:25	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		03/02/10 22:40		
a,a,a-Trifluorotoluene (S)	93	%	50-150	1		03/02/10 22:40	98-08-8	
4-Bromofluorobenzene (S)	83	%	50-150	1		03/02/10 22:40	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/02/10 03:02	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/10 03:02	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/10 03:02	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/02/10 03:02	1330-20-7	
4-Bromofluorobenzene (S)	100	%	80-120	1		03/02/10 03:02	460-00-4	
Dibromofluoromethane (S)	95	%	80-122	1		03/02/10 03:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	80-124	1		03/02/10 03:02	17060-07-0	
Toluene-d8 (S)	93	%	80-123	1		03/02/10 03:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 253154

Sample: MW-7 **Lab ID: 253154005** Collected: 02/26/10 11:55 Received: 02/26/10 15:00 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	**1120**	ug/L	76.9	1	03/02/10 15:45	03/03/10 18:42		
Motor Oil Range	**518**	ug/L	385	1	03/02/10 15:45	03/03/10 18:42	64742-65-0	
n-Octacosane (S)	108	%	50-150	1	03/02/10 15:45	03/03/10 18:42	630-02-4	
o-Terphenyl (S)	72	%	50-150	1	03/02/10 15:45	03/03/10 18:42	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	**190**	ug/L	50.0	1		03/02/10 23:04		
a,a,a-Trifluorotoluene (S)	91	%	50-150	1		03/02/10 23:04	98-08-8	
4-Bromofluorobenzene (S)	84	%	50-150	1		03/02/10 23:04	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/02/10 03:24	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/10 03:24	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/10 03:24	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/02/10 03:24	1330-20-7	
4-Bromofluorobenzene (S)	107	%	80-120	1		03/02/10 03:24	460-00-4	
Dibromofluoromethane (S)	100	%	80-122	1		03/02/10 03:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	80-124	1		03/02/10 03:24	17060-07-0	
Toluene-d8 (S)	93	%	80-123	1		03/02/10 03:24	2037-26-5	

Sample: MW-8 **Lab ID: 253154006** Collected: 02/26/10 11:20 Received: 02/26/10 15:00 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	**136**	ug/L	76.9	1	03/02/10 15:45	03/03/10 18:58		
Motor Oil Range	**496**	ug/L	385	1	03/02/10 15:45	03/03/10 18:58	64742-65-0	
n-Octacosane (S)	111	%	50-150	1	03/02/10 15:45	03/03/10 18:58	630-02-4	
o-Terphenyl (S)	103	%	50-150	1	03/02/10 15:45	03/03/10 18:58	84-15-1	
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx							
Gasoline Range Organics	ND	ug/L	50.0	1		03/02/10 23:28		
a,a,a-Trifluorotoluene (S)	94	%	50-150	1		03/02/10 23:28	98-08-8	
4-Bromofluorobenzene (S)	84	%	50-150	1		03/02/10 23:28	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/02/10 03:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/02/10 03:47	100-41-4	
Toluene	ND	ug/L	1.0	1		03/02/10 03:47	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/02/10 03:47	1330-20-7	
4-Bromofluorobenzene (S)	98	%	80-120	1		03/02/10 03:47	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		03/02/10 03:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	80-124	1		03/02/10 03:47	17060-07-0	
Toluene-d8 (S)	93	%	80-123	1		03/02/10 03:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 01571 - Bellingham
Pace Project No.: 253154

Sample: Trip Blank **Lab ID: 253154007** Collected: 02/26/10 00:00 Received: 02/26/10 15:00 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		03/02/10 17:49		
a,a,a-Trifluorotoluene (S)	96	%	50-150	1		03/02/10 17:49	98-08-8	
4-Bromofluorobenzene (S)	82	%	50-150	1		03/02/10 17:49	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		03/01/10 23:59	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/01/10 23:59	100-41-4	
Toluene	ND	ug/L	1.0	1		03/01/10 23:59	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/01/10 23:59	1330-20-7	
4-Bromofluorobenzene (S)	101	%	80-120	1		03/01/10 23:59	460-00-4	
Dibromofluoromethane (S)	95	%	80-122	1		03/01/10 23:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	80-124	1		03/01/10 23:59	17060-07-0	
Toluene-d8 (S)	94	%	80-123	1		03/01/10 23:59	2037-26-5	

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QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 253154

QC Batch: OEXT/1938 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 253154001, 253154002, 253154003, 253154004, 253154005, 253154006

METHOD BLANK: 22586 Matrix: Water
Associated Lab Samples: 253154001, 253154002, 253154003, 253154004, 253154005, 253154006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range	ug/L	ND	80.0	03/03/10 15:10	
Motor Oil Range	ug/L	ND	400	03/03/10 15:10	
n-Octacosane (S)	%	112	50-150	03/03/10 15:10	
o-Terphenyl (S)	%	105	50-150	03/03/10 15:10	

LABORATORY CONTROL SAMPLE & LCSD: 22587 22588

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range	ug/L	5000	4540	4410	91	88	51-147	3	30	
Motor Oil Range	ug/L	5000	5220	5220	104	104	20-160	.002	30	
n-Octacosane (S)	%				108	112	50-150			
o-Terphenyl (S)	%				87	85	50-150			

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QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 253154

QC Batch: GCV/1454 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx GCV Water
Associated Lab Samples: 253154001, 253154002, 253154003, 253154004, 253154005, 253154006, 253154007

METHOD BLANK: 22620 Matrix: Water
Associated Lab Samples: 253154001, 253154002, 253154003, 253154004, 253154005, 253154006, 253154007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	ND	50.0	03/02/10 15:48	
4-Bromofluorobenzene (S)	%	90	50-150	03/02/10 15:48	
a,a,a-Trifluorotoluene (S)	%	104	50-150	03/02/10 15:48	

LABORATORY CONTROL SAMPLE: 22621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	250	235	94	50-163	
4-Bromofluorobenzene (S)	%			88	50-150	
a,a,a-Trifluorotoluene (S)	%			104	50-150	

SAMPLE DUPLICATE: 22688

Parameter	Units	253153001 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		
4-Bromofluorobenzene (S)	%	87	88	2	
a,a,a-Trifluorotoluene (S)	%	97	99	2	

SAMPLE DUPLICATE: 22689

Parameter	Units	253154001 Result	Dup Result	RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	ND		
4-Bromofluorobenzene (S)	%	87	82	7	
a,a,a-Trifluorotoluene (S)	%	98	92	6	

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QUALITY CONTROL DATA

Project: 01571 - Bellingham
Pace Project No.: 253154

QC Batch: MSV/2089 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 253154001, 253154002, 253154003, 253154004, 253154005, 253154006, 253154007

METHOD BLANK: 22550 Matrix: Water
Associated Lab Samples: 253154001, 253154002, 253154003, 253154004, 253154005, 253154006, 253154007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/01/10 23:13	
Ethylbenzene	ug/L	ND	1.0	03/01/10 23:13	
Toluene	ug/L	ND	1.0	03/01/10 23:13	
Xylene (Total)	ug/L	ND	3.0	03/01/10 23:13	
1,2-Dichloroethane-d4 (S)	%	101	80-124	03/01/10 23:13	
4-Bromofluorobenzene (S)	%	102	80-120	03/01/10 23:13	1n
Dibromofluoromethane (S)	%	94	80-122	03/01/10 23:13	
Toluene-d8 (S)	%	94	80-123	03/01/10 23:13	

LABORATORY CONTROL SAMPLE: 22551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.2	106	75-124	
Ethylbenzene	ug/L	20	20.1	101	76-124	
Toluene	ug/L	20	19.0	95	75-124	
Xylene (Total)	ug/L	60	53.1	88	76-123	
1,2-Dichloroethane-d4 (S)	%			103	80-124	
4-Bromofluorobenzene (S)	%			97	80-120	
Dibromofluoromethane (S)	%			104	80-122	
Toluene-d8 (S)	%			92	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 22683 22684

Parameter	Units	253120026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	20	20	21.2	21.2	106	106	75-124	.2	
Ethylbenzene	ug/L	ND	20	20	20.4	20.3	102	101	76-124	.5	
Toluene	ug/L	ND	20	20	19.1	18.8	95	94	75-124	1	
Xylene (Total)	ug/L	ND	60	60	53.1	53.2	89	89	76-123	.01	
1,2-Dichloroethane-d4 (S)	%						103	101	80-124		
4-Bromofluorobenzene (S)	%						97	98	80-120		
Dibromofluoromethane (S)	%						104	104	80-122		
Toluene-d8 (S)	%						91	90	80-123		

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QUALIFIERS

Project: 01571 - Bellingham
Pace Project No.: 253154

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

BATCH QUALIFIERS

Batch: GCSV/1498

[1] A sample duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1n Sample was evaluated to the MDL.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 01571 - Bellingham
Pace Project No.: 253154

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
253154001	**MW-1**	EPA 3510	OEXT/1938	NWTPH-Dx	GCSV/1498
253154002	**MW-4**	EPA 3510	OEXT/1938	NWTPH-Dx	GCSV/1498
253154003	**MW-5**	EPA 3510	OEXT/1938	NWTPH-Dx	GCSV/1498
253154004	**MW-6**	EPA 3510	OEXT/1938	NWTPH-Dx	GCSV/1498
253154005	**MW-7**	EPA 3510	OEXT/1938	NWTPH-Dx	GCSV/1498
253154006	**MW-8**	EPA 3510	OEXT/1938	NWTPH-Dx	GCSV/1498
253154001	**MW-1**	NWTPH-Gx	GCV/1454		
253154002	**MW-4**	NWTPH-Gx	GCV/1454		
253154003	**MW-5**	NWTPH-Gx	GCV/1454		
253154004	**MW-6**	NWTPH-Gx	GCV/1454		
253154005	**MW-7**	NWTPH-Gx	GCV/1454		
253154006	**MW-8**	NWTPH-Gx	GCV/1454		
253154007	**Trip Blank**	NWTPH-Gx	GCV/1454		
253154001	**MW-1**	EPA 5030B/8260	MSV/2089		
253154002	**MW-4**	EPA 5030B/8260	MSV/2089		
253154003	**MW-5**	EPA 5030B/8260	MSV/2089		
253154004	**MW-6**	EPA 5030B/8260	MSV/2089		
253154005	**MW-7**	EPA 5030B/8260	MSV/2089		
253154006	**MW-8**	EPA 5030B/8260	MSV/2089		
253154007	**Trip Blank**	EPA 5030B/8260	MSV/2089		

Sample Condition Upon Receipt

Pace Analytical

Client Name: Stantec

Project # 253154

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

Optional: Proj. Due Date: Proj. Name:

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: 3.5 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 2/26/10 HR

Temp should be above freezing to 6°C

Comments:

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

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: JENNI GROSS Date: 2/26/10

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)

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: 02/26/10
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:** / **LAB USE ONLY**
TELEPHONE: (425) 298-1023 / **FAX:** (425) 298-1020	**E-MAIL:** chris.gdak@stantec.com		
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 NOTES:
Container/Preservative or PID Readings or Laboratory Notes

253154

* Field Point name only required if different from Sample ID

LAB USE ONLY	Field Point Name	Sample ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx	BTEX by 8260B
	MW-1	MW-1	02/26/10	0910	GW	7	X	X	X
	MW-4	MW-4	"	1015	GW	7	X	X	X
	MW-5	MW-5	"	0945	GW	7	X	X	X
	MW-6	MW-6	"	1045	GW	7	X	X	X
	MW-7	MW-7	"	1155	GW	7	X	X	X
	MW-8	MW-8	"	1120	GW	7	X	X	X
	QCTB	QCTB			DI	6	X		X

TEMPERATURE ON RECEIPT C°: 8.5

40-mL VOAs, preserved with HCl

Relinquished by: (Signature)	Received by: (Signature)	Date: 02/26/10	Time: 1500
Relinquished by: (Signature)	Received by: (Signature) JENNI GROSS / PACE	Date: 2/26/10	Time: 1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

8/19/03 Revision

Sample Container Count

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CLIENT: Stantec 253154

COC PAGE 1 of 1

COC ID# ____________

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

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter 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 voa vial	WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFX	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		