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Quarterly Groundwater Monitoring Report - First Quarter 2010
ConocoPhillips Facility No. 255028 (RM&R #01344)
Washington Department of Ecology Voluntary Cleanup Program ID #NW1290
247 D Street
Blaine, Washington

Stantec Project No.:
212302363

Submitted to:
Ms. Jing Liu
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

March 23, 2010

Dear Ms. Liu:

Stantec Consulting Corporation (Stantec) is pleased to present this quarterly groundwater monitoring report to the Washington State Department of Ecology (DOE) Voluntary Cleanup Program (VCP) on behalf of the ConocoPhillips Company (ConocoPhillips). This report describes the results of groundwater monitoring activities performed by Stantec during the First Quarter of 2010 (the reporting period) at ConocoPhillips Facility No. 255028 (RM&R #01344; VCP #NW1290) located at 247 D Street in Blaine, Washington (the Site).

GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities during the reporting period were performed on February 25, 2010. Groundwater monitoring activities were performed in accordance with Stantec's protocols for groundwater monitoring events (Attachment A).

Four groundwater monitoring wells were gauged and sampled (MW-3, MW-4, MW-7, and MW-8). These activities are described below.

Monitoring Well Gauging

Four groundwater monitoring wells were gauged: MW-3, MW-4, MW-7, and MW-8. Monitoring wells were gauged for the presence of liquid phase hydrocarbons (LPH) and depth-to-groundwater prior to purging and sampling. LPH was not measured in the groundwater monitoring wells at thicknesses greater than or equal to 0.01 feet. The depth-to- groundwater ranged from 0.70 feet (MW-7) to 2.55 feet (MW-4) below the top of casing (TOC). Depth-to-groundwater data was used to calculate the groundwater elevation in each well and evaluate the groundwater flow direction and gradient. Historical groundwater gauging data and gauging data from the reporting period are summarized in Table 1. Well locations and groundwater flow direction are shown on Figure 1. Based on these data, the inferred groundwater flow direction was to the southeast at an approximate gradient of 0.03 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 (Attachment B). Purged groundwater and rinsate/decontamination water were stored on site in a Department of Transportation (DOT)-approved, steel drum pending laboratory characterization and off site 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 an independent laboratory.

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

CHEMICAL ANALYSES AND RESULTS

Chemical Analyses

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

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE) and halogenated volatile organic compounds (HVOCs) using Environmental Protection Agency (EPA) Method 8260B.

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

Chemical Analyses Results

Historical chemical analyses results and those from the reporting period are summarized in Table 1. Analytical results for total petroleum hydrocarbons as gasoline (TPH-G), as diesel (TPH-D), as oil (TPH-O), BTEX, MTBE, and select HVOCs 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.

- Vinyl chloride was detected in MW-4 and MW-7 at concentrations of 0.27 and 2.3 micrograms per liter (µg/L), respectively, which exceed the MTCA Method A cleanup level of 0.2 µg/L. These results are generally consistent with data from other recent groundwater monitoring events.

It should be noted that cis-1,2-Dicholoroethene (cis-1,2-DCE) was detected in MW-4, MW-7, and MW-8 at concentrations of 13.1, 2.6 and 8.1 µg/L, respectively. There is no default MTCA Method A cleanup level for cis-1,2-DCE.

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 (if any) that were identified during chemical analysis.

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 by a licensed ConocoPhillips-approved vendor

CONCLUSIONS

Concentrations of vinyl chloride in MW-4 and MW-7 exceeded the MTCA Method A cleanup level. Cis-1,2-DCE was detected in MW-4, MW-7, and MW-8; however, there is no default MTCA Method A cleanup level for cis-1,2-DCE. The reported results are generally consistent with data 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:

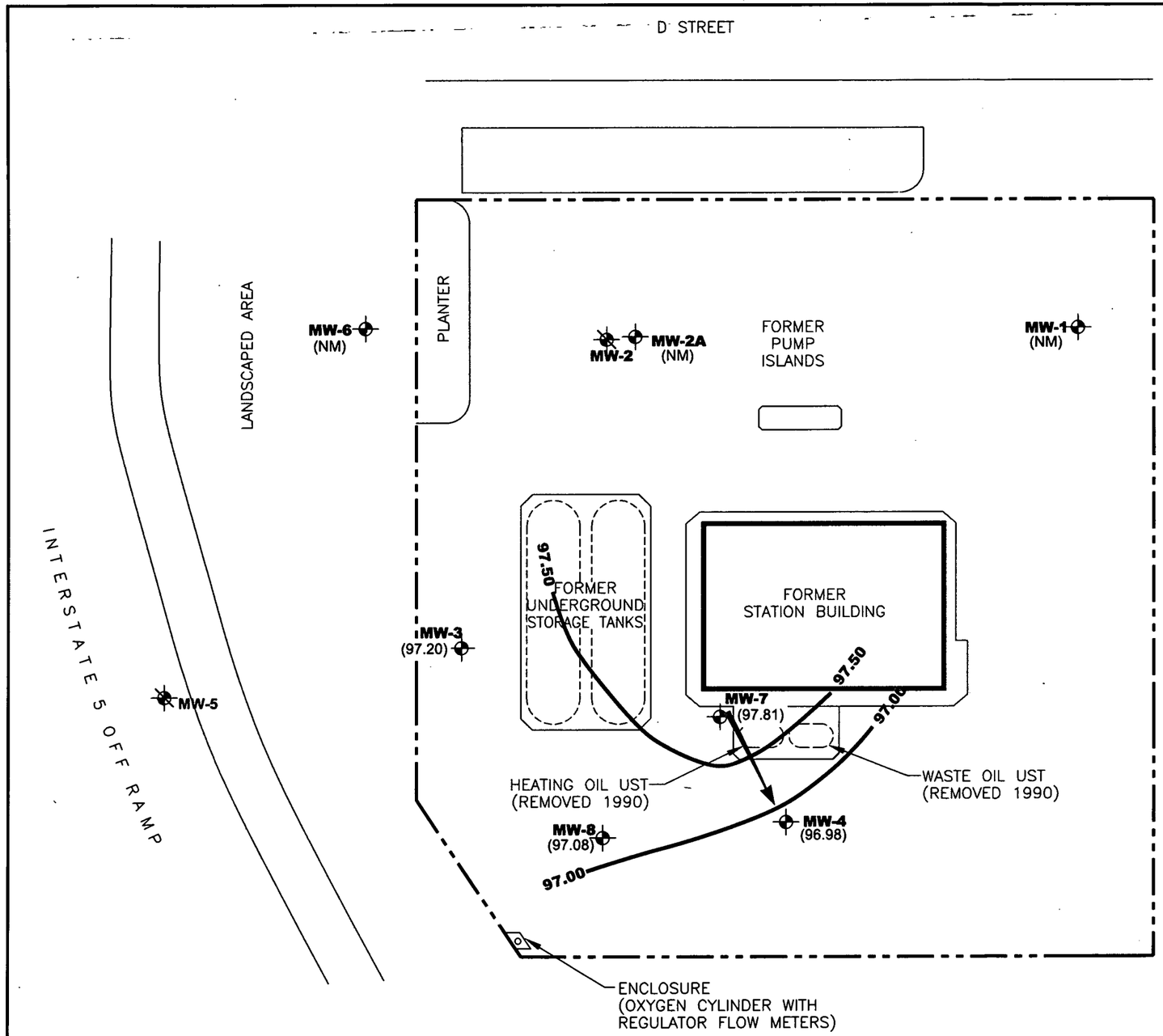
Andrea Donnell
Geologic Staff

Reviewed by:

Mark Trewartha, R.G.
Senior Hydrogeologist

ATTACHMENTS

Figure 1	Site Plan with Groundwater Elevations (February 25, 2010)
Figure 2	Site Plan with Analytical Results (February 25, 2010)
Table 1	Cumulative Summary of Groundwater Elevations and Sample Analytical Results
Attachment A	Field and Laboratory Procedures
Attachment B	Field Data Sheets
Attachment C	Certified Laboratory Analytical Report and Chain-of-Custody Documentation



LEGEND

- SITE BOUNDARY
- MW-1 — MONITORING WELL LOCATION AND ID
- MW-2 — DESTROYED OR ABANDONED MONITORING WELL LOCATION AND ID

GROUNDWATER

- (97.20) GROUNDWATER ELEVATION (FEET)
- (NM) NOT MEASURED
- INFERRED GROUNDWATER FLOW DIRECTION
- 97.00 — GROUNDWATER ELEVATION CONTOUR (FEET)
- CONTOUR INTERVAL = 0.50 FT

NOTE:

1). ALL LOCATIONS ARE APPROXIMATE.

N

0 20 40

APPROXIMATE SCALE IN FEET

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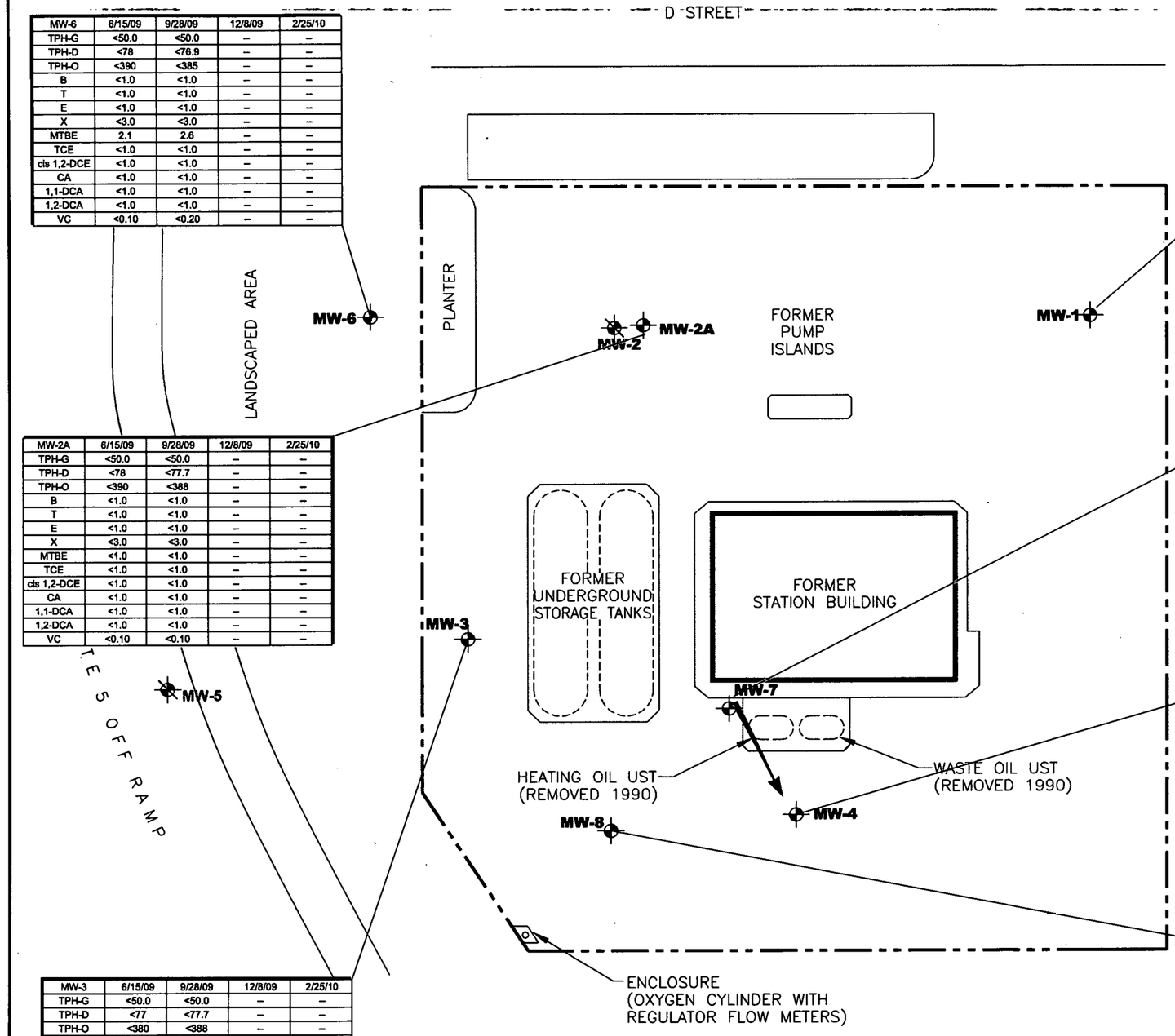
FOR: ConocoPhillips
FACILITY NO. 255028 (RM&R 1344)
247 D STREET
BLAINE, WASHINGTON

SITE PLAN WITH GROUNDWATER ELEVATIONS (FEBRUARY 25, 2010)

FIGURE: **1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302363	DJH	AD	CG	3/16/10

FILEPATH:K:\1-CLIENTS\ConocoPhillips\01CP\1344-Blaine (5028)\212302363-2010 QRTLY\1Q10\1344-BLAINE 1Q10 FIG.1&2.dwg|dheller|Mar 18, 2010 at 17:54|Layout: F1-GWE (1Q)



MW-6	6/15/09	9/28/09	12/8/09	2/25/10
TPH-G	<50.0	<50.0	–	–
TPH-D	<78	<76.9	–	–
TPH-O	<390	<385	–	–
B	<1.0	<1.0	–	–
T	<1.0	<1.0	–	–
E	<1.0	<1.0	–	–
X	<3.0	<3.0	–	–
MTBE	2.1	2.6	–	–
TCE	<1.0	<1.0	–	–
cis 1,2-DCE	<1.0	<1.0	–	–
CA	<1.0	<1.0	–	–
1,1-DCA	<1.0	<1.0	–	–
1,2-DCA	<1.0	<1.0	–	–
VC	<0.10	<0.20	–	–

MW-1	6/15/09	9/28/09	12/8/09	2/25/10
TPH-G	<50.0	<50.0	–	–
TPH-D	<79	<77.7	–	–
TPH-O	<400	<388	–	–
B	<1.0	<1.0	–	–
T	<1.0	<1.0	–	–
E	<1.0	<1.0	–	–
X	<3.0	<3.0	–	–
MTBE	1.4	1.9	–	–
TCE	<1.0	<1.0	–	–
cis 1,2-DCE	<1.0	<1.0	–	–
CA	<1.0	<1.0	–	–
1,1-DCA	<1.0	<1.0	–	–
1,2-DCA	<1.0	<1.0	–	–
VC	<0.10	<0.10	–	–

MW-2A	6/15/09	9/28/09	12/8/09	2/25/10
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	–	–
MTBE	<1.0	<1.0	–	–
TCE	<1.0	<1.0	–	–
cis 1,2-DCE	<1.0	<1.0	–	–
CA	<1.0	<1.0	–	–
1,1-DCA	<1.0	<1.0	–	–
1,2-DCA	<1.0	<1.0	–	–
VC	<0.10	<0.10	–	–

MW-7	6/15/09	9/28/09	12/8/09	2/25/10
TPH-G	<50.0	<50.0	–	–
TPH-D	<78	<77.3	–	–
TPH-O	<390	<386	–	–
B	1.2	<1.0	2.3	1.6
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
MTBE	<1.0	<1.0	<1.0	1.9
TCE	**5.1**	<1.0	<1.0	<1.0
cis 1,2-DCE	9.9	11.0	1.4	2.6
CA	<1.0	<1.0	<1.0	<1.0
1,1-DCA	<1.0	<1.0	<1.0	<1.0
1,2-DCA	<1.0	<1.0	<1.0	<1.0
VC	**1.1**	**1.2**	**2.1**	**2.3**

MW-4	6/15/09	9/28/09	12/8/09	2/25/10
TPH-G	<50.0	<50.0	–	–
TPH-D	<77	<77.7	–	–
TPH-O	<380	<388	–	–
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0 MO	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0 MO	<3.0	<3.0
MTBE	<1.0	<1.0	<1.0	<1.0
TCE	<1.0	<1.0	<1.0	<1.0
cis 1,2-DCE	5.7	10.6	11.1	13.1
CA	<1.0	<1.0	<1.0	<1.0
1,1-DCA	<1.0	<1.0 MO	<1.0	<1.0
1,2-DCA	<1.0	<1.0	<1.0	<1.0
VC	<0.10	**0.74**	<0.20	**0.27**

MW-8	6/15/09	9/28/09	12/8/09	2/25/10
TPH-G	<50.0	<50.0	–	–
TPH-D	<77	<77.3	–	–
TPH-O	<380	<386	–	–
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
MTBE	8.3	12.3	5.4	6.9
TCE	1.2	<1.0	1.5	1.7
cis 1,2-DCE	8.9	9.4	6.7	8.1
CA	<1.0	<1.0	<1.0	<1.0
1,1-DCA	<1.0	<1.0	<1.0	<1.0
1,2-DCA	<1.0	<1.0	<1.0	<1.0
VC	**1.1**	**1.1**	**0.31**	<0.20

MW-3	6/15/09	9/28/09	12/8/09	2/25/10
TPH-G	<50.0	<50.0	–	–
TPH-D	<77	<77.7	–	–
TPH-O	<380	<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	<3.0
MTBE	<1.0	<1.0	1.0	3.1
TCE	<1.0	<1.0	<1.0	<1.0
cis 1,2-DCE	<1.0	<1.0	<1.0	<1.0
CA	<1.0	<1.0	<1.0	<1.0
1,1-DCA	<1.0	<1.0	<1.0	<1.0
1,2-DCA	<1.0	<1.0	<1.0	<1.0
VC	<0.10	<0.10	<0.20	<0.20

LEGEND

- SITE BOUNDARY
- MW-1 — MONITORING WELL LOCATION AND ID
- MW-2 — DESTROYED OR ABANDONED MONITORING WELL LOCATION AND ID
- INFERRED GROUNDWATER FLOW DIRECTION

ANALYTES

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
TCE	TRICHLOROETHENE
cis 1,2-DCE	CIS-1,2-DICHLOROETHENE
CA	CHLOROETHANE
1,1-DCA	1,1-DICHLOROETHANE
1,2-DCA	1,2-DICHLOROETHANE
VC	VINYL CHLORIDE
MTBE	METHYL TERT-BUTYL ETHER

UNITS IN MICROGRAMS PER LITER (µg/L)

< LESS THAN LABORATORY REPORING LIMITS

– NOT ANALYZED OR NOT APPLICABLE

BOLD AT OR ABOVE MTCA METHOD A CLEANUP LEVEL

MO = MATRIX SPIKE RECOVERY AND/OR SPIKE DUPLICATES RECOVERY WAS OUTSIDE LABORATORY CONTROL LIMITS

N

0 20 40

APPROXIMATE SCALE IN FEET

Stantec
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FOR: ConocoPhillips
FACILITY NO. 255028 (RM&R 1344)
247 D STREET
BLAINE, WASHINGTON

SITE PLAN WITH ANALYTICAL RESULTS (FEBRUARY 25, 2010)

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302383	DJH	TP	CG	3/16/10

FILEPATH:K:\1-CLIENTS\ConocoPhillips\01CP\1344-Blaine (5028)\212302383-2010 QRTLY\1Q10\1344-BLAINE 1Q10 FIG.1&2.dwg|dheller|Mar 23, 2010 at 13:28|Layout: F2-GWA (1Q)

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 255028 (RM&R 1344)

247 D Street

Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
MW-1	07/06/93	4.35	--	96.07	<50	--	--	<0.1	<0.1	<0.1	<1.0	--	--	--	--	--	--	--
100.42	10/11/94	4.80	--	95.62	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	01/20/95	3.80	--	96.62	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	04/21/95	3.77	--	96.65	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	07/24/95	5.13	--	95.29	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	10/25/95	4.28	--	96.14	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	01/17/96	2.95	--	97.47	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	04/18/96	3.30	--	97.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/25/96	4.13	--	96.29	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	10/15/96	4.74	--	95.68	--	<250	<750	--	--	--	--	--	--	--	--	--	--	--
	02/27/97	4.47	--	95.95	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/13/97	6.19	--	94.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/97	5.65	--	94.77	142	387	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/25/97	4.02	--	96.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/13/98	4.01	--	96.41	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/19/98	4.31	--	96.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/98	4.94	--	95.48	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	11/19/98	4.28	--	96.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/17/99	4.08	--	96.34	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	09/25/99	4.60	--	95.52	138	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/17/99	4.94	--	95.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/07/99	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/10/00	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/31/00	4.98	--	95.48	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/31/00	5.00	--	95.42	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/01/00	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/07/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/02/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/01/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/04/02	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/07/02	4.18	--	96.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/02/02	4.86	--	95.36	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	12/04/02	4.50	--	95.92	<50.0	<287	<575	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	03/05/03[2]	3.81	--	96.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/03	4.00	--	96.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/03	3.570	--	96.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/24/04	3.540	--	96.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/04	3.61	--	96.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/23/04	3.46	--	96.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/29/04	3.13	--	97.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/03/05	3.38	--	97.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/09/05	3.57	--	96.85		--	--	--	--	--	--	--	--	--	--	--	--	--
	09/15/05	3.57	--	96.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/14/05	3.47	--	96.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/7/06	2.85	--	97.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/27/06	3.06	--	96.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/8/06	6.02	--	94.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/27/06	4.98	--	95.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/28/07	4.29	--	96.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/21/07	4.38	--	96.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/24/07	4.53	--	95.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/04/07	3.92	--	96.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/06/08	3.94	--	96.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/17/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/09/08	4.30	--	96.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/10/08	MONITORING WELL WAS NOT GAUGED OR SAMPLED						--	--	--	--	--	--	--	--	--	--	--
	03/30/09	3.90	--	96.52	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	06/15/09	4.65	--	95.77	<50.0	479	<400	<1.0	<1.0	<1.0	<3.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	09/25/09	5.23	--	95.19	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	12/08/09	4.80	--	95.62	Gauged only, not part of the sampling schedule this reporting period													
	02/25/10	--	--	--	Not gauged or sampled													

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 255028 (RM&R 1344)
247 D Street
Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
MW-2	07/05/93	3.87	--	94.62	7,800	--	--	990	560	140	840	--	--	--	--	--	--	--
98.49	10/11/94	5.20	--	93.29	2,500	380	<750	1,500	37	220	300	--	--	--	--	--	--	--
	01/20/95	4.19	--	94.30	14,000	690	<750	3,400	1,300	960	2,300	--	"	<1.0	<1.0	<1.0	<1.0	<1[1]
	04/21/95	4.23	--	94.26	18,000	630	<750	5,600	650	810	2,800	--	--	--	--	--	--	--
	07/24/95	4.71	--	93.78	4,500	690	<750	4,300	55	430	800	--	--	--	--	--	--	--
	10/25/95	4.04	--	94.45	12,000	1,000	<750	6,000	390	800	2,000	--	--	--	--	--	--	--
	01/17/96	3.87	--	94.62	13,000	410	<750	5,300	520	840	2,200	--	--	--	--	--	--	--
	04/18/96	2.67	--	95.82	31,000	670	<750	9,600	1,900	1,100	4,300	--	--	--	--	--	--	--
	07/25/96	4.29	--	94.20	3,780	689	<750	7,820	189	463	901	--	--	--	--	--	--	--
	10/16/96	3.96	--	94.53	6,680	<750	<750	5,340	252	436	1,170	--	--	--	--	--	--	--
	02/27/97	3.67	--	94.82	16,300	780	<750	6,790	661	832	2,800	--	--	--	--	--	--	--
	05/13/97	4.08	--	94.41	15,800	<250	<750	8,530	1,860	793	3,470	--	--	--	--	--	--	--
	08/21/97	4.41	--	94.08	23,500	<250	<750	8,830	718	853	2,270	--	--	--	--	--	--	--
	11/25/97	3.48	--	95.01	42,400	993	<750	8,070	1,330	1,870	6,870	--	"	<20	<20	<20	<20	<20[1]
	02/13/98	3.05	--	95.44	27,600	455	<750	9,020	664	1,560	5,260	--	"	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/19/98	3.71	--	94.78	54,300	1,300	<750	12,200	2,620	2,340	9,850	--	"	<10.0	<10.0	<10.0	<10.0	<10.0[1]
	08/17/98	4.72	--	93.77	44,300	756	<750	12,100	644	2,490	9,700	--	"	<10.0	<10.0	<10.0	<10.0	<10.0[1]
	11/19/98	4.18	--	94.31	30,100	--	--	8,730	435	2,050	6,530	--	"	<20.0	<20.0	<20.0	<20.0	<20[1]
	02/17/99	3.96	--	94.53	24,800	589	<750	7,550	469	1,840	5,070	--	"	<20.0	<20.0	<20.0	<20.0	<20[1]
	05/25/99	3.16	--	95.33	63,800	2,120	<3,750	8,860	3,890	3,100	12,000	--	"	<10.0	<10.0	<10.0	<10.0	<10.0[1]
	08/12/99	3.56	--	94.93	58,100	881	<750	10,600	1,340	3,660	13,300	--	"	<100	<100	<100	<100	<100[1]
	12/07/99	3.73	--	95.26	17,700	530	<750	6,290	58.9	1,790	2,290	--	"	<10.0	<10.0	<10.0	<10.0	<10.0[1]
	02/10/00	2.91	--	95.58	20,300	532	<1,490	8,540	421	2,050	3,830	--	"	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/31/00	3.80	--	94.69	44,700	837	<750	9,630	793	3,230	8,840	--	"	<10.0	<10.0	<10.0	<10.0	<10.0[1]
	08/31/00	4.85	--	93.64	33,800	1,020	<750	10,400	110	3,120	5,260	--	--	--	--	--	--	--
	11/01/00	3.78	--	94.71	35,800	780	<1,330	7,330	677	2,880	6,850	--	"	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/02/01	2.94	--	95.55	14,100	1,540	<750	5,460	146	1,820	2,250	--	--	--	--	--	--	--
	05/02/01	3.86	--	94.61	35,600	561	<750	5,100	1,970	2,330	7,120	--	"	<40.0	<40.0	<40.0	<40.0	<40.0[1]
	08/14/01	4.55	--	93.94	41,400	1,660	<563	7,880	491	3,600	8,790	--	"	<1.00	<1.00	<1.00	<1.00	<1[1]
	11/01/01	4.40	--	94.09	29,000	1,450	<670	5,180	149	2,480	3,600	--	"	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/04/02	2.10	--	96.39	29,800	1,170	<500	4,380	341	1,710	2,190	--	--	--	--	--	--	--
	MONITORING WELL DESTROYED																	
MW-2A	12/04/02[1]	2.86	--	96.21	<50.0	332	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
99.17	03/05/03	2.82	--	96.55	<50.0	<301	<602	1.21	<0.500	<0.500	<1.00	--	"	<1.00	<1.00	<1.00	<1.00	<1[1]
	06/06/03	3.15	--	96.02	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	"	<0.200	<1.00	<0.200	<0.200	<0.200
	12/12/03	1.78	--	97.39	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	--	"	<0.500	<0.500	<0.500	<0.500	1.83
	03/24/04	2.180	--	97.01	<100[2]	<132	<263	<1.00[2]	<1.00[2]	<1.00[2]	<3.00[2]	--	"	<0.500	<0.500	<0.500	<0.500	<0.5[1]
	06/17/04	3.81	--	95.36	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	--	"	<0.500	<0.500	<0.500	<0.500	<0.700
	09/23/04	1.34	--	97.83	<50	<255	<511	<0.50	<0.50	<0.50	<1.0	--	"	<0.50	<1.0	<0.50	<0.50	<0.5[1]
	12/28/04	0.88	--	98.29	<100	<241	<481	<1.00	<1.00	<1.00	<3.00	--	"	<1.0	<1.0	<1.0	<1.0	<1[1]
	03/03/05	3.03	--	96.14	<100	<240	<480	<1.00	<1.00	<1.00	<3.00	--	"	<1.0	<1.0	<1.0	<1.0	<1[1]
	05/08/05	3.15	--	96.02	<100	<238	<476	<1	<1	<1	<3	<1	<1	<1	<1	<1	<1	<1[1]
	08/15/05	4.78	--	94.41	<48	<160	<200	<0.5	<0.5	<0.5	<1.5	--	<1	<0.8	<1	<0.8	<1	<1[1]
	12/14/05	2.61	--	96.58	<48	<75	<95	<0.2	<0.2	<0.2	<0.6	0.4	<1	<0.8	<1	<1	<1	<1[1]
	03/07/06	2.69	--	96.49	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	<1	<0.8	<1	<0.8	<1	<1[1]
	06/27/06	3.5	--	95.67	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	<1	<0.8	<1	<0.8	<1	<1[1]
	09/08/06	5.48	--	93.69	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	0.5	<1	<0.8	<1	<0.8	<1	<1[1]
	12/27/06	1.06	--	98.11	<48	<800[3]	<1000[3]	<0.5	<0.7	<0.8	<1.6	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	03/28/07	1.19	--	97.98	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	06/21/07	2.67	--	96.50	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<0.8	<1[1]
	09/24/07	4.71	--	94.98	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	12/04/07	0.75	--	98.92	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	03/05/08	2.62	--	96.55	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	05/17/08	2.44	--	96.73	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	09/03/08	2.75	--	96.42	<50	--	--	<0.1	<0.1	<0.1	<0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	12/10/08	Removed from sampling schedule this quarter.			--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/30/09	1.82	--	97.35	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	06/15/09	3.65	--	95.52	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	09/28/09	3.43	--	95.74	<50.0	477.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	12/08/09	1.76	--	98.72	Gauged only- not part of the sampling schedule this reporting period.													
	02/25/10	--	--	--	Not gauged or sampled													

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 255028 (RM&R 1344)

247 D Street

Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
MW-3	07/06/93	4.39	--	94.18	1,000	--	--	840	25	77	570	--	--	--	--	--	--	--
98.57	10/11/94	5.54	--	93.03	21,000	1,200	<750	1,100	21	380	640	--	--	--	--	--	--	--
	01/20/95	5.54	--	93.03	7,900	2,400	<750	990	13	210	150	--	*	4.7	<1.0	<1.0	<2.0	46
	04/21/95	6.63	--	91.94	6,300	1,900	<750	100	11	130	91	--	*	3.3	1.2	<1.0	1.9	130
	07/24/95	6.54	--	92.03	<50	1,700	<750	4.6	<0.5	0.69	<1.0	--	*	1.7	<1.0	<1.0	1.2	53
	10/25/95	5.39	--	93.18	11,000	2,400	<750	840	58	130	34	--	*	4.5	<1.0	<1.0	1.5	74
	01/17/96	6.30	--	92.27	5,600	930	<750	480	38	56	18	--	*	2.1	1.7	<1.0	1.3	32
	04/15/96	5.72	--	92.85	7,400	1,200	<750	380	5.3	61	22	--	*	2.4	1.5	<1.0	1.5	53
	07/25/96	4.74	--	93.83	4,240	897	<750	377	<1.0	40.2	<10.0	--	*	1.21	<1.0	<1.0	1.27	22.3
	10/16/96	5.22	--	93.35	4,040	<250	<750	171	1.85	27.2	5.04	--	*	1.04	1.65	<1.00	1.12	33.1
	02/27/97	3.79	--	94.78	2,580	<250	<750	261	<2.50	24.1	6.01	--	*	1.47	1.85	<1.00	1.39	13.2
	05/13/97	4.54	--	94.03	186	<250	<750	119	<1.00	6.85	2.35	--	*	<1.00	1.31	<1.00	<1.00	15.8
	08/21/97	4.72	--	93.85	1,780	<250	<750	138	1.98	18.3	5.45	--	*	<1.00	2.74	<1.00	<1.00	21.4
	11/25/97	4.19	--	94.38	1,840	738	<750	36.3	1.80	5.65	3.21	--	*	1.07	<1.00	<1.00	<1.00	18.8
	02/13/98	4.35	--	94.22	1,850	497	<750	63.6	1.86	4.91	2.99	--	*	1.18	1.83	<1.00	<1.00	22.7
	05/19/98	4.78	--	93.79	2,850	567	<750	85.8	<5.00	9.07	<5.00	--	*	1.03	<1.00	<1.00	<1.00	29.5
	08/17/98	5.29	--	93.28	2,990	<250	<750	68.4	3.29	3.57	<5.00	--	*	1.51	<1.00	<1.00	<1.00	30.6
	11/19/98	4.89	--	93.68	1,850	--	--	46.1	<10.0	2.64	<5.00	--	*	1.33	1.05	<1.00	<1.00	47.4
	02/17/99	Obstructed																
	05/25/99	4.21	--	94.36	1,100	978	<750	53.8	10.8	4.72	<2.00	--	*	<1.00	<1.00	<1.00	<1.00	11.2
	08/17/99	4.40	--	94.17	3,030	874	<750	314	23.2	15.0	4.75	--	*	<2.00	<2.00	<2.00	<2.00	19.3
	12/07/99	4.85	--	93.72	1,910	568	<750	211	12.0	<5.00	<10.0	--	*	1.05	1.76	<1.00	<1.00	20.2
	02/10/00	4.76	--	93.81	2,080	<250	<750	260	6.55	3.31	<2.30	--	*	1.17	<1.00	<1.00	<1.00	15.8
	05/31/00	4.62	--	93.95	2,250	489	<750	273	9.08	22.6	7.03	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/01/00	4.97	--	93.60	3,070	622	<750	268	5.86	9.41	<10.0	--	*	--	--	--	--	--
	11/01/00	4.72	--	93.85	2,190	761	<1,670	139	3.99	<2.05	<3.75	--	*	<1.00	<1.00	<1.00	<1.00	4.47
	02/02/01	5.85	--	92.72	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/02/01	3.81	--	94.76	1,300	354	<750	29.8	1.84	1.62	1.87	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/14/01	4.31	--	94.26	1,250	558	<573	31.2	0.712	1.94	4.34	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	11/01/01	4.18	--	94.39	774	704	<500	4.75	<0.500	0.556	1.47	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/04/02	3.91	--	94.66	881	491	<500	30.4	<0.500	0.753	1.78	--	--	--	--	--	--	--
	05/07/02	4.32	--	94.25	807	535	<625	49.7	1.45	1.83	4.48	--	--	--	--	--	--	--
	08/02/02	5.11	--	93.46	859	421	<362	31.7	0.506	1.10	2.17	--	--	--	--	--	--	--
	12/04/02	4.40	--	94.17	354	402	<500	7.79	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	03/05/03	2.25	--	96.32	372	<287	<575	38.9	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	5.13
	05/08/03	5.56	--	93.02	834	483	584	138	5.02	2.47	9.41	--	*	<4.00	<4.00	<4.00	<4.00	8.44
	12/12/03	2.31	--	96.76	96.4	<119	<237	9.5	<0.500	<0.500	<1.50	--	*	<0.500	<0.500	<0.500	<0.500	<0.5[2]
	03/24/04	3.18	--	95.39	<100	<133	<265	10.7	<1.00	<1.00	<3.00	--	*	<0.500	<0.500	<0.500	<0.500	1.83
	08/17/04	3.29	--	95.28	<50.0	<119	<238	0.508	<0.500	<0.500	<1.50	--	*	<0.500	<0.500	<0.500	<0.500	<0.200
	09/23/04	5.05	--	93.52	200	<255	<510	4.3	<0.50	<0.50	<1.0	--	*	<0.50	<0.50	<0.50	<0.50	1.4
	12/29/04	1.54	--	97.03	<100	<239	<477	<1.00	<1.00	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	03/03/05	1.98	--	96.59	<100	<238	<476	<1.00	<1.00	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	06/09/05	2.91	--	95.66	<100	<238	<476	4.83	<1	<1	<3	39.8	<1	<1	<1	<1	<1	2.13
	09/15/05	5.87	--	92.70	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	--	<1	<0.8	<1	<1	<1	<1[1]
	12/14/05	5.61	--	94.66	<48	<76	<95	0.3	<0.7	<0.7	<0.8	8.2	<1	<0.8	<1	<1	<1	<1[1]
	03/07/06	2.97	--	95.90	<48	<75	<94	<0.2	<0.2	<0.2	<0.8	6.5	<1	<0.8	<1	<0.8	<1	<1[1]
	06/27/06	3.1	--	95.47	<48	<75	<94	<0.2	<0.2	<0.2	<0.8	1.3	<1	<0.8	<1	<0.8	<1	<1[1]
	09/08/06	6.78	--	91.79	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	2	<1	<0.8	<1	<0.8	<1	<1[1]
	12/27/06	3.36	--	95.72	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	4	<1	<0.8	<1	<0.8	<1	<1[1]
	03/28/07	2.05	--	96.52	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	2	<1	<0.8	<1	<1	<1	<1[1]
	06/21/07	3.71	--	94.86	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	2	<1	<0.8	<1	<1	<1	<1[1]
	09/24/07	5.25	--	93.32	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	4	<1	<0.8	<1	<1	<1	<1[1]
	12/04/07	0.78	--	97.81	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	3	<1	<0.8	<1	<1	<1	<1[1]
	03/06/08	3.43	--	95.14	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	3	<1	<0.8	<1	<1	<1	<1[1]
	06/17/08	2.97	--	95.60	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	0.7	<1	<0.8	<1	<1	<1	<1[1]
	09/30/08	3.80	--	94.87	<50	<77	<96	<0.1	<0.1	<0.1	<0.2	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	12/10/08	Removed from sampling schedule this quarter.						--	--	--	--	--	--	--	--	--	--	--
	03/30/09	3.70	--	94.87	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	06/15/09	3.02	--	95.55	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	09/28/09	5.14	--	93.43	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	12/08/09	3.02	--	95.55	--	--	--	<1.0	<1.0	<1.0	<3.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20
	03/25/10	1.37	--	97.20	--	--	--	<1.0	<1.0	<1.0	<3.0	3.1	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 255028 (RM&R 1344)

247 D Street

Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
MW-4	07/08/93	4.78	--	94.75	<50	370	<1,000	<1.0	<1.0	<1.0	<1.0	--	*	9.8	<1.0	<1.0	<1.0	<5.0[1]
99.53	10/11/94	5.50	--	94.03	<50	260	<750	<0.5	<0.5	<0.5	<1.0	--	*	9.8	<1.0	<1.0	<1.0	<1[1]
	01/20/95	6.53	--	93.00	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	8.9	<1.0	<1.0	<1.0	<1[1]
	04/21/95	6.62	--	92.91	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	6.8	<1.0	<1.0	<1.0	<1[1]
	07/24/95	6.83	--	92.70	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	8.6	<1.0	<1.0	<0.5	<1[1]
	10/25/95	6.41	--	93.12	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	11	<1.0	<1.0	<0.5	<1[1]
	01/17/96	6.25	--	93.28	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	7.6	<1.0	<1.0	<0.5	<1[1]
	04/18/96	4.13	--	95.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/25/96	4.88	--	94.65	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	5.15	<1.0	<1.0	<0.5	<1[1]
	10/16/96	6.56	--	92.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/27/97	6.05	--	93.48	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	8.33	<1.00	<1.00	<1.00	<1[1]
	05/13/97	6.26	--	93.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/97	6.04	--	93.49	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	10.3	<1.00	<1.00	<1.00	<1[1]
	11/25/97	4.88	--	94.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/13/98	4.89	--	94.64	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	7.76	<1.00	<1.00	<1.00	<1[1]
	05/19/98	5.11	--	94.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/98	5.20	--	94.33	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	5.38	<1.00	<1.00	<1.00	<1[1]
	11/19/98	4.95	--	94.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/99	4.72	--	94.81	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	9.01	<1.00	<1.00	<1.00	<1[1]
	05/25/99	4.66	--	94.87	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	6.95	<1.00	<1.00	<1.00	<1[1]
	08/12/99	4.98	--	94.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/07/99	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/10/00	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/31/00	4.78	--	94.75	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	6.11	<1.00	<1.00	<1.00	<1[1]
	08/31/00	5.44	--	94.09	<50.0	<465	<1360	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/01/00	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/02/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/02/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/01/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/04/02	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/07/02	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/02/02	5.00	--	94.53	<50.0	<362	<704	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	12/04/02	4.79	--	94.74	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	03/05/03[2]	4.80	--	94.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/06/03	4.56	--	94.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/03	4.075	--	95.505	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/24/04	3.45	--	96.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/04	3.95	--	95.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/23/04	3.57	--	95.95	<50	<254	<508	<0.50	<0.50	<0.50	<1.0	--	*	26	<1.0	<0.50	<0.50	5.8
	12/28/04	3.90	--	95.63	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	*	23.5	<1.0	<1.0	<1.0	2.58
	03/03/05	4.57	--	94.96	<100	<242	<483	<1.00	<1.00	<1.00	<3.00	--	*	23.8	<1.0	<1.0	<1.0	<1[1]
	06/09/05	3.83	--	95.70	<100	<238	<476	<1	<1	<1	<3	<1	<1	32.5	<1	<1	<1	2.84
	09/15/05	6.67	--	92.86	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	--	<1	30	<1	<1	<1	3
	12/14/05	3.56	--	95.97	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	<1	14	<1	<1	<1	<1[1]
	03/07/06	3.66	--	95.87	<48	<75	<93	<0.2	<0.2	<0.2	<0.6	<0.3	<1	14	<1	<1	<1	<1[1]
	06/27/06	3.7	--	95.83	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	<1	15	<1	<1	<1	<1[1]
	09/06/06	6.13	--	93.36	<48	<76	<95	<0.5	<0.7	<0.6	<0.8	<0.5	1	34	<1	<1	<1	4
	12/27/06	3.5	--	96.03	<48	<76	<95	<0.5	<0.7	<0.6	<1.6	<0.5	1	23	<1	<1	<1	<1[1]
	03/28/07	2.52	--	97.01	<48	<76	<95	<0.5	<0.7	<0.6	<1.6	<0.5	1	18	<1	<1	<1	<1[1]
	06/21/07	4.05	--	95.48	<50	<76	<95	<0.5	<0.7	<0.6	<0.6	<0.5	<1	26	<1	<1	<1	<1[1]
	09/24/07	5.65	--	93.88	<50	<75	<94	<0.5	<0.7	<0.6	<0.6	<0.5	<1	28	<1	<1	<1	3
	12/04/07	2.20	--	97.33	<50	<75	<94	<0.5	<0.7	<0.6	<0.6	<0.5	<1	11	<1	<1	<1	<1[1]
	03/06/08	3.90	--	95.63	<50	<75	<94	<0.5	<0.7	<0.6	<0.6	<0.5	<1	15	<1	<1	<1	<1[1]
	06/17/08	3.45	--	96.08	<50	<76	<95	<0.5	<0.7	<0.6	<0.6	<0.5	<1	20	<1	<1	<1	<1[1]
	09/03/08	3.95	--	95.59	<50	<77	<97	<0.1	<0.1	<0.1	<0.2	<0.1	0.5	5	<0.1	<0.1	<0.1	0.3
	12/10/08	2.52	--	97.01	<50	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	11	<0.1	<0.1	<0.1	0.1
	03/30/09	3.05	--	96.48	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.40
	06/15/09	4.92	--	94.61	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	5.7	<1.0	<1.0	<1.0	<0.10
	09/28/09	4.88	--	94.65	<50.0	<77.7	<388	<1.0	<1.0 MD	<1.0	<3.0 MD	<1.0	<1.0	10.6	<1.0	<1.0 MD	<1.0	0.74
	12/08/09	2.99	--	96.54	--	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	11.1	<1.0	<1.0	<1.0	<0.20
	02/25/10	2.58	--	96.95	--	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	13.1	<1.0	<1.0	<1.0	0.27

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 255028 (RM&R 1344)

247 D Street

Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
MW-5	10/11/94	5.75	--	87.21	56	680	<750	2.8	<0.5	<0.5	<1.0	260	--	--	--	--	--	--
92.96	01/20/95	3.04	--	89.92	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	04/21/95	3.57	--	89.39	<50	<250	<750	<0.70	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	07/24/95	4.37	--	88.59	<50	<250	<750	<0.66	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	10/25/95	3.87	--	89.09	<50	<250	<750	4.1	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	01/17/96	2.86	--	90.10	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	04/15/96	3.19	--	89.77	<50	<250	<750	2.9	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	07/25/96	4.06	--	88.90	<50	<250	<750	1.97	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	10/15/96	3.87	--	89.09	<50	<250	<750	1.02	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	02/27/97	3.09	--	89.87	<50	<250	<750	0.836	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/13/97	3.05	--	89.91	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	08/21/97	3.69	--	89.07	<50	348	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/25/97	2.53	--	90.43	<50	286	<750	0.976	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/13/98	3.02	--	89.94	68.9	<250	<750	<5.00	<5.00	<5.00	<2.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/19/98	3.65	--	89.31	160	<250	<750	<5.00	<1.00	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/17/98	4.53	--	88.43	78.8	<250	<750	<3.00	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	11/19/98	3.33	--	89.63	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/17/99	3.21	--	89.75	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/25/99	3.66	--	89.30	<50.0	<250	<750	0.800	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/12/99	UNABLE TO LOCATE SINCE 08/17/98																
MW-6	10/11/94	5.65	--	91.99	<50	<250	<750	3.2	<0.5	0.53	<1.0	--	--	--	--	--	--	--
97.64	01/20/95	2.36	--	95.48	<50	260	<750	<0.5	<0.5	<0.5	<1.0	--	--	<1.0	<1.0	<1.0	<1.0	<1[1]
	04/21/95	3.34	--	94.50	<50	260	<750	4.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	07/24/95	5.00	--	92.84	150	330	<750	34	<0.5	2.8	<1.0	--	--	--	--	--	--	--
	10/25/95	4.97	--	92.87	290	440	<750	78	<0.5	2.1	<1.0	--	--	--	--	--	--	--
	01/17/96	2.15	--	95.69	<50	250	<750	1.6	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	04/15/96	3.34	--	94.50	61	250	<750	5.9	<0.5	0.54	<1.0	--	--	--	--	--	--	--
	07/25/96	4.22	--	93.62	149	321	<750	78.2	<0.5	3.68	1.92	--	--	--	--	--	--	--
	10/15/96	4.24	--	93.60	68.3	<250	<750	19.6	<0.500	0.780	<1.00	--	--	--	--	--	--	--
	02/27/97	4.41	--	93.43	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/13/97	4.32	--	93.52	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	08/21/97	5.75	--	92.09	<50	370	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/25/97	2.09	--	95.75	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/13/98	4.23	--	93.61	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/19/98	4.26	--	93.58	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/17/98	6.46	--	91.38	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	1.04	<1[1]
	11/19/98	3.15	--	94.69	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/17/99	3.54	--	94.30	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/25/99	4.86	--	92.98	<50.0	341	<750	0.600	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/12/99	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/07/99	3.11	--	94.73	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/10/00	3.60	--	94.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/31/00	4.61	--	93.23	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/31/00	6.18	--	91.66	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	--	--	--	--	--
	11/01/00	5.07	--	92.77	<50.0	<250	<750	0.668	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/02/01	4.05	--	93.79	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/02/01	4.04	--	93.80	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/14/01	6.20	--	91.64	60.0	341	<560	0.538	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	2.06	<1[1]
	11/01/01	Obstructed																
	02/04/02	1.86	--	95.96	<50.0	261	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/07/02	4.70	--	93.14	121	467	<500	4.42	0.773	1.73	2.11	--	--	--	--	--	--	--
	08/02/02	5.39	--	92.45	460	418	<500	48.9	0.804	19.8	2.52	--	--	--	--	--	--	--
	12/04/02	4.58	--	93.26	278	512	<602	12.5	<0.500	7.89	<1.00	--	--	--	--	--	--	--
	03/05/03	4.36	--	93.49	204	<264	<568	9.88	0.952	7.43	<1.00	--	*	1.40	<1.00	1.40	<1.00	<1[1]
	05/05/03	4.69	--	92.95	97.0	<250	<500	1.05	2.09	1.73	4.43	--	*	<0.200	<1.00	<0.200	1.77	<0.200
	12/12/03	2.830	--	95.010	130	221	267	1.49	4.94	1.02	<1.50	--	*	<0.500	<0.500	<0.500	0.575	<0.5[2]
	03/24/04	4.140	--	93.70	<100	<125	<251	<1.00	<1.00	<1.00	<3.00	--	*	<0.500	<0.500	<0.500	0.773	<0.5[2]
	06/17/04	4.70	--	93.14	<50.0	<118	<237	1.09	<0.500	0.838	<1.50	--	*	<0.500	<0.500	<0.500	1.42	<0.200
	09/23/04	3.51	--	94.33	83	<256	<512	<0.50	<0.50	<0.50	<1.0	--	*	<0.50	<1.0	<0.50	1.7	<0.5[2]
	12/16/04	1.12	--	96.72	<100	<237	<474	<1.00	1.55	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	03/03/05	4.84	--	93.00	<100	<237	<474	<1.00	<1.00	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	1.31	<1[1]
	05/09/05	4.96	--	92.88	<100	<238	<478	<1	<1	<1	<3	5.12	<1	<1	<1	<1	<1	<1[1]
	09/15/05	6.5	--	91.34	<48	<74	<93	<0.5	<0.5	<0.5	<1.5	5.12	<1	<0.8	<1	<1	<1	<1[1]
	12/14/05	3.85	--	93.99	69	<75	200	<0.2	1.6	0.5	<0.8	<5.0[1]	<1	<0.8	<1	<1	<1	<1[1]
	03/07/06	4.16	--	93.68	<48	<75	<94	<0.2	<0.2	<0.2	<0.8	6.9	<1	<0.8	<1	<0.8	<1	<1[1]
	05/27/06	Unable to locate																
	09/08/06	7.56	--	90.26	<48	<76	<96	<0.5	<0.7	<0.6	<0.8	<0.5	<1	<0.8	<1	<0.8	<1	<1[1]
	12/27/06	1.46	--	96.36	290	<77	<97	<0.5	49	<0.6	<1.6	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	03/26/07	1.94	--	95.90	<48	<77	<96	<0.5	1	<0.6	<1.6	0.9	<1	<0.8	<1	<1	<1	<1[1]
	06/21/07	4.58	--	93.26	<50	<76	<95	<0.5	<0.7	<0.6	<0.8	14	<1	<0.8	<1	<1	1	<1[1]
	09/24/07	5.95	--	91.89	<50	<76	<96	<0.5	<0.7	<0.6	<0.8	4	<1	<0.8	<1	<1	<1	<1[1]

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 255028 (RM&R 1344)
247 D Street
Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L) [a]	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
	12/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/06/08	4.11	--	93.73	<50	<75	<94	<0.5	<0.7	<0.6	<0.6	3	<1	<0.8	<1	<1	<1	<1[d]
	06/17/08	3.93	0.00	93.91	<50	<76	<95	<0.5	<0.7	<0.6	<0.6	8	<1	<0.8	<1	<1	<1	<1[d]
	09/09/08	4.70	--	93.14	<50	<77	<96	<0.1	<0.1	<0.1	<0.2	4.9	<0.1	0.7	<0.1	<0.1	<0.1	<0.1
	12/10/08	Removed from sampling schedule this quarter.						--	--	--	--	--	--	--	--	--	--	--
	03/30/09	3.72	--	94.82	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	06/15/09	5.00	--	92.84	<50.0	<76	<380	<1.0	<1.0	<1.0	<3.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	09/28/09	3.59	--	92.75	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20
	12/08/09	2.95	--	94.86	--	--	--	Gauged only- not part of the sampling schedule this reporting period.										
	02/25/10	--	--	--	Not gauged or sampled													
MW-7	05/09/05	3.16	--	95.35	<100	<238	<478	<1	<1	<1	<3	138	14.6	<1	<1	<1	156	6.36
98.51	09/15/05	4.82	--	93.69	<48	<75	<94	2.6	<0.5	<0.5	<1.5	--	230	480	<1	<1	<1	34
	12/14/05	2.60	--	95.91	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	2	3	<1	<1	<1	<1[d]
	03/07/06	2.83	--	95.68	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	4	7	<1	<0.8	<1	<1[d]
	06/27/06	3.40	--	95.11	<48	<75	<93	0.5	<0.2	<0.2	<0.6	4.0	180	230	<1	2	<1	16
	09/06/06	5.52	--	92.99	<48	<76	<96	2	<0.7	<0.8	<0.8	2.0	570	1,100	<1	<1	<1	39
	12/27/06	1.01	--	97.50	<48	<76	<95	2	<0.7	<0.8	<1.6	0.6	4	6	<1	<1	<1	22
	03/28/07	1.30	--	97.21	<48	<76	<95	8	<0.7	<0.8	<1.6	4.0	17	36	<1	<1	<1	17
	06/21/07	2.82	--	95.69	<50	<76	<95	2	<0.7	<0.8	<0.8	0.8	70	170	<1	<1	<1	13
	09/24/07	4.27	--	94.24	<50	<75	<94	2	<0.7	<0.8	<0.8	0.9	170	300	<1	<1	<1	20
	12/04/07	0.26	--	98.75	<50	<75	<94	9	<0.7	<0.8	<0.8	5.0	1	300	<1	<1	2	14
	03/06/08	2.79	--	95.72	<50	<76	<95	2	<0.7	<0.8	<0.8	<0.5	1	2	<1	<1	<1	<1[d]
	06/17/08	2.35	--	96.16	<50	<77[c]	<97[c]	1	<0.7	<0.8	<0.8	<0.5	3	6	<1	<1	<1	2
	09/09/08	2.75	--	95.76	<50	<76	<95	0.4	<0.1	<0.1	<0.1	<0.2	4.4	5.9	<0.1	<0.1	<0.1	0.8
	12/10/08	0.90	--	97.61	<50	--	--	5.5	<0.1	<0.1	<0.1	0.7	1.1	2	<0.1	<0.1	<0.1	6.5
	03/30/09	1.84	--	96.67	<50.0	--	--	1.3	<1.0	<1.0	<3.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	1.8
	06/15/09	3.65	--	94.86	<50.0	<76	<380	1.2	<1.0	<1.0	<3.0	<1.0	5.1	9.9	<1.0	<1.0	<1.0	1.1
	09/28/09	3.48	--	95.03	<50.0	<77.3	<386	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	11	<1.0	<1.0	<1.0	1.2
	12/08/09	1.78	--	96.73	--	--	--	2.3	<1.0	<1.0	<3.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	2.1
	02/25/10	0.70	--	97.81	--	--	--	1.6	<1.0	<1.0	<3.0	1.9	<1.0	2.6	<1.0	<1.0	<1.0	2.3
MW-8	05/09/05	4.31	--	94.66	<100	<238	<478	<5	<5	<5	<15	<5	72	<5	<5	<5	177	38.3
98.97	09/15/05	6.22	--	92.75	<48	<75	<94	0.6	<0.5	<0.5	<1.5	--	12	72	<1	<0.8	<1	9
	12/14/05	3.63	--	95.14	<48	<75	<94	<1.0	<0.2	<0.2	<0.6	40[1]	5	32	<1	<1	<1	4
	03/07/06	3.86	--	95.11	<48	<75	<94	0.4	<0.2	<0.2	<0.6	28	3	19	<1	<0.8	<1	3
	06/27/06	4.65	--	94.32	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	13	2	11	<1	<0.8	<1	1
	09/06/06	7.07	--	91.90	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	33	8	52	<1	<1	<1	6
	12/27/06	2.39	--	96.56	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	21	3	21	<1	<1	<1	3
	03/28/07	2.62	--	96.35	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	17	2	15	<1	<1	<1	1
	06/21/07	4.05	--	94.92	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	19	3	21	<1	<1	<1	3
	09/24/07	5.76	--	93.21	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	27	4	40	<1	<1	<1	5
	12/04/07	2.10	--	96.87	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	16	2	16	<1	<1	<1	2
	03/06/08	3.70	--	95.27	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	8	2	10	<1	<1	<1	<1[d]
	06/17/08	3.25	--	95.72	<50	<77[c]	<97[c]	<0.5	<0.7	<0.8	<0.8	9	2	11	<1	<1	<1	1
	09/09/08	3.80	--	95.17	<50	<76	<97	<0.1	<0.1	<0.1	<0.2	8.4	1.1	8.6	<0.1	<0.1	<0.1	0.8
	12/10/08	2.20	--	96.77	<50	--	--	<0.1	<0.1	<0.1	<0.1	12	1.8	14	<0.1	<0.1	<0.1	1.7
	03/30/09	2.86	--	96.11	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	9.6	1.4	<1.0	<1.0	<1.0	<1.0	1.4
	06/15/09	4.85	--	94.12	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	8.3	1.2	8.9	<1.0	<1.0	<1.0	1.1
	09/28/09	5.07	--	93.90	<50.0	<77.3	<386	<1.0	<1.0	<1.0	<3.0	12.3	<1.0	9.4	<1.0	<1.0	<1.0	1.1
	12/08/09	2.73	--	96.24	--	--	--	<1.0	<1.0	<1.0	<3.0	5.4	1.5	8.7	<1.0	<1.0	<1.0	0.31
	02/25/10	1.89	--	97.08	--	--	--	<1.0	<1.0	<1.0	<3.0	8.9	1.7	8.1	<1.0	<1.0	<1.0	<0.20
ethod A Cleanup Level					1000/800[a]	500	500	5	1000	700	1000	20	5	NA	NA	NA	NA	5	0.2

NOTES:
Concentrations are in micrograms per liter (ug/L).
TOC = Top of casing. Wellhead elevations in feet were taken from prior consultant's reports.
LPH = Liquid phase hydrocarbon in feet
TPH-G = Gasoline range hydrocarbons by Ecology Method NWTPH-Gx
TPH-D and TPH-O = Diesel and oil range hydrocarbons by Ecology Method NWTPH-Dx
cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene; CA = Chloroethane; Chloride;TCE=Trichloroethene; MTBE=Methyl Tert-Butyl Ether
1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; VC = Vinyl Chloride
1,2-DCE, CA, 1,1-DCA, 1,2-DCA, TCE, Chloroethane and VC by EPA 8010B (modified) or EPA 8260B; refer to lab reports
BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes by EPA Method 8020, EPA 8021B or 8260B; refer to official laboratory reports
< = Less than the stated laboratory reporting limit
Bolded values equal or exceed MTCA Method A Cleanup Levels
[a] Concentration levels stated by MTCA Method A for TPH-G are 1,000 µg/L when no benzene is present and 800 µg/L when benzene is present.
[b] The recovery for the laboratory control sample (LCS) with this sample a below quality control limits. Since no sample remained for a reextraction the data is reported.
[c] The laboratory reporting limits (RL) are above MTCA Method A cleanup levels
Data collected before 12/12/03 are taken from prior consultants
[d] 1,1-dichloroethene and trans-1,2-dichloroethene both detected in this sample at a concentration of 3 ug/L.
* TCE not reported prior to 6/9/05. Data may be available in previous reports.
**Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.
MO = Matrix spike recovery and/or spike duplicate recovery was outside laboratory control limits

ATTACHMENT 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.

ATTACHMENT B
FIELD DATA SHEETS

SITE VISITATION REPORT

CP 255028 (RM&R 01344) Blaine, Washington

Name(s) D. Reitz Date: 02/25/10 Time of Arrival Call-In: 1330

Arrival Time: 1330 Departure Time: 1630 Time of Departure Call-In 1620

Who did you call? T. Parise

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

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

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

1330 Arrive on site. Call-in to office. Purchase ice. Set-up decon. station. Perform tailgate safety meeting. Initiate 1Q10 GWM sampled procedures (gauge & sample 4 gwm wells).

1550 Complete 1Q10 GWM sample procedures. Decon. equipment and release purge water/rinsate solutions into staged drum. Label drum.

1600 Pack sample cooler & load equipment into truck.

1620 Call-in to office. Depart job site.

02/25/10

Stantec International Incorporated

HYDROLOGIC DATA SHEET

Gauge Date: 02/25/10 **Project Name:** CP RM&R 1344 Blaine

Field Technician: David Reitz **Project Number:** 212302363

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)				
[redacted]		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.								
[redacted]		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.								
MW-3		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1330	—	1.37	12.50	Y	N	Y	
MW-4		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1335	—	2.55	12.20	Y	N	Y	
[redacted]		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.							N	
MW-7		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1350	—	0.70	12.60	Y	N	Y	
MW-8		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1340	—	1.89	12.90	Y	N	Y	

Stantec Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302363 PURGED BY: DR WELL I.D.: MW-3

CLIENT NAME: COP SAMPLED BY: DR SAMPLE I.D.: MW-3

LOCATION: 247 D Street, Blaine, WA

DATE PURGED 02/25/10 START (2400hr) 1355 END (2400hr) 1420

DATE SAMPLED 02/25/10 SAMPLE TIME (2400hr) 1410 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) = 12.50

DEPTH TO WATER (feet) = 1.37

WATER COLUMN HEIGHT (feet) = 11.13

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/25/10	1400	800	11.0	0.022	6.31	Clr
	1403	500	11.0	0.022	6.28	Clr
	1406	500	11.0	0.022	6.26	Clr
	1409	500	10.7	0.022	6.27	Clr
					02/25/10	
Calculated Variance of Final Three Samples:			0.3	0	0.02	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 8.00 SAMPLE DTW: 3.00

ANTICIPATED PURGE INTAKE DEPTH: 8.00 ANALYSES: HVOCs; BTEX; MTBE

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 #: 212302363 PURGED BY: DR WELL I.D.: MW-4

CLIENT NAME: COP SAMPLED BY: DR SAMPLE I.D.: MW-4

LOCATION: 247 D Street, Blaine, WA

DATE PURGED 02/25/10 START (2400hr) 1425 END (2400hr) 1450

DATE SAMPLED 02/25/10 SAMPLE TIME (2400hr) 1440 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) = 12.20

DEPTH TO WATER (feet) = 2.55

WATER COLUMN HEIGHT (feet) = 9.65 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/25/10	1430	800	11.4	0.031	6.33	Clr
	1433	500	10.8	0.031	6.35	Clr
	1436	500	10.6	0.031	6.34	Clr
	1439	500	10.8	0.030	6.34	Clr
					02/25/10	
Calculated Variance of Final Three Samples:			0.2	0.001	0.01	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 8.00 SAMPLE DTW: 3.40

ANTICIPATED PURGE INTAKE DEPTH: 8.00 ANALYSES: HVOCs, BTEX, MTBE

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:

Stantec Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302363 PURGED BY: DR WELL I.D.: MW-8

CLIENT NAME: COP SAMPLED BY: DR SAMPLE I.D.: MW-8

LOCATION: 247 D Street, Blaine, WA

DATE PURGED 02/25/10 START (2400hr) 1455 END (2400hr) 1520

DATE SAMPLED 02/25/10 SAMPLE TIME (2400hr) 1510 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) = 12.90

DEPTH TO WATER (feet) = 1.89

WATER COLUMN HEIGHT (feet) = 11.01 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/25/10	1500	800	10.5	0.030	6.43	Clr
	1503	500	10.4	0.030	6.38	Clr
	1506	500	10.3	0.030	6.37	Clr
	1509	500	10.3	0.030	6.36	Clr
					02/25/10	
Calculated Variance of Final Three Samples:			0.1	0	0.01	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 8.00 SAMPLE DTW: 2.89

ANTICIPATED PURGE INTAKE DEPTH: 8.00 ANALYSES: HVOCs; BTEX; MTBE

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 #: 212302363 PURGED BY: DR WELL I.D.: MW-7

CLIENT NAME: COP SAMPLED BY: DR SAMPLE I.D.: MW-7

LOCATION: 247 D Street, Blaine, WA

DATE PURGED 02/25/10 START (2400hr) 1525 END (2400hr) 1550

DATE SAMPLED 02/25/10 SAMPLE TIME (2400hr) 1540 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) = 12.60

DEPTH TO WATER (feet) = 0.70

WATER COLUMN HEIGHT (feet) = 11.90 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
02/25/10	1530	500	11.0	0.027	6.62	Clr
↓	1533	500	10.9	0.028	6.69	Clr
	1536	500	11.1	0.027	6.76	Clr
↓	1539	500	11.2	0.027	6.78	Clr
					02/25/10	
Calculated Variance of Final Three Samples:			0.2	0.001	0.03	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 8.00 SAMPLE DTW: ~~0.75~~ 0.75 WJR

ANTICIPATED PURGE INTAKE DEPTH: 8.00 ANALYSES: HVOCs

BTEX

MTBE

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]

Chain Of Custody Record

Pace Analytical Laboratories
940 S. Harney Street, Seattle WA
(206) 767-5063

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

Purchase Order #: 4512896492
ConocoPhillips AOC#: 01344

DATE: 02/25/10
PAGE: 1 of 1

SAMPLING COMPANY: Stantec	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 255028	GLOBAL ID NO.:
ADDRESS: 12034 134th Court NE, Suite 102, Redmond, WA 98052		SITE ADDRESS (Street and City): 247 D Street, Blaine, WA	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: 212302363		

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 ☑

REQUESTED ANALYSES

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

* Field Point name only required if different from Sample ID

LAB USE ONLY	Field Point Name*	Sample ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	HVOCs by 8260B	BTEX by 8260B	MTBE by 8260B								TEMPERATURE ON RECEIPT C°
	MW-3	MW-3	02/25/10	1410	GW	6	X	X	X								
	MW-4	MW-4	"	1440	GW	6	X	X	X								
	MW-7	MW-7	"	1540	GW	6	X	X	X								
	MW-8	MW-8	"	1510	GW	6	X	X	X								
	—	TB				6	X	X	X								

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:

6/19/03 Revision

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

Pace Analytical®
www.pacelabs.com

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

March 10, 2010

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

RE: Project: 01344 - Blaine
Pace Project No.: 253155

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.

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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Seattle, WA 98108
(206)767-5060

CERTIFICATIONS

Project: 01344 - Blaine
Pace Project No.: 253155

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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(206)767-5060

SAMPLE ANALYTE COUNT

Project: 01344 - Blaine
Pace Project No.: 253155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
253155001	**MW-3**	EPA 5030B/8260	LPM	39	PASI-S
253155002	**MW-4**	EPA 5030B/8260	LPM	39	PASI-S
253155003	**MW-7**	EPA 5030B/8260	LPM	39	PASI-S
253155004	**MW-8**	EPA 5030B/8260	LPM	39	PASI-S
253155005	**Trip Blank**	EPA 5030B/8260	LPM	39	PASI-S

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ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 253155

Sample: MW-3 **Lab ID: 253155001** Collected: 02/25/10 14:10 Received: 02/26/10 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/05/10 13:35	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/05/10 13:35	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/05/10 13:35	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/05/10 13:35	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/05/10 13:35	75-35-4	L2
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 13:35	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/05/10 13:35	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/05/10 13:35	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 13:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 13:35	106-46-7	
Benzene	ND	ug/L	1.0	1		03/05/10 13:35	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		03/05/10 13:35	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/05/10 13:35	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/05/10 13:35	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/05/10 13:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/05/10 13:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/05/10 13:35	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/05/10 13:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/05/10 13:35	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		03/05/10 13:35	124-48-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/05/10 13:35	100-41-4	
Methyl-tert-butyl ether	**3.1**	ug/L	1.0	1		03/05/10 13:35	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		03/05/10 13:35	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		03/05/10 13:35	127-18-4	
Toluene	ND	ug/L	1.0	1		03/05/10 13:35	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/05/10 13:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/05/10 13:35	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		03/05/10 13:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/05/10 13:35	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/05/10 13:35	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 13:35	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		03/05/10 13:35	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/05/10 13:35	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/05/10 13:35	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 13:35	10061-02-6	
4-Bromofluorobenzene (S)	100	%	80-120	1		03/05/10 13:35	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		03/05/10 13:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	80-124	1		03/05/10 13:35	17060-07-0	
Toluene-d8 (S)	92	%	80-123	1		03/05/10 13:35	2037-26-5	

Sample: MW-4 **Lab ID: 253155002** Collected: 02/25/10 14:40 Received: 02/26/10 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/05/10 13:57	71-55-6	

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ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 253155

Sample: MW-4 **Lab ID: 253155002** Collected: 02/25/10 14:40 Received: 02/26/10 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/05/10 13:57	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/05/10 13:57	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/05/10 13:57	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/05/10 13:57	75-35-4	L2
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 13:57	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/05/10 13:57	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/05/10 13:57	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 13:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 13:57	106-46-7	
Benzene	ND	ug/L	1.0	1		03/05/10 13:57	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		03/05/10 13:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/05/10 13:57	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/05/10 13:57	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/05/10 13:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/05/10 13:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/05/10 13:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/05/10 13:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/05/10 13:57	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		03/05/10 13:57	124-48-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/05/10 13:57	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/05/10 13:57	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		03/05/10 13:57	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		03/05/10 13:57	127-18-4	
Toluene	ND	ug/L	1.0	1		03/05/10 13:57	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/05/10 13:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/05/10 13:57	75-69-4	
Vinyl chloride	**0.27**	ug/L	0.20	1		03/05/10 13:57	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/05/10 13:57	1330-20-7	
cis-1,2-Dichloroethene	**13.1**	ug/L	1.0	1		03/05/10 13:57	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 13:57	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		03/05/10 13:57	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/05/10 13:57	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/05/10 13:57	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 13:57	10061-02-6	
4-Bromofluorobenzene (S)	101	%	80-120	1		03/05/10 13:57	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		03/05/10 13:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-124	1		03/05/10 13:57	17060-07-0	
Toluene-d8 (S)	93	%	80-123	1		03/05/10 13:57	2037-26-5	

Sample: MW-7 **Lab ID: 253155003** Collected: 02/25/10 15:40 Received: 02/26/10 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/05/10 14:21	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/05/10 14:21	79-34-5	

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ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 253155

Sample: MW-7 **Lab ID: 253155003** Collected: 02/25/10 15:40 Received: 02/26/10 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/05/10 14:21	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/05/10 14:21	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/05/10 14:21	75-35-4	L2
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 14:21	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/05/10 14:21	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/05/10 14:21	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 14:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 14:21	106-46-7	
Benzene	**1.6**	ug/L	1.0	1		03/05/10 14:21	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		03/05/10 14:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/05/10 14:21	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/05/10 14:21	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/05/10 14:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/05/10 14:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/05/10 14:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/05/10 14:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/05/10 14:21	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		03/05/10 14:21	124-48-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/05/10 14:21	100-41-4	
Methyl-tert-butyl ether	**1.9**	ug/L	1.0	1		03/05/10 14:21	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		03/05/10 14:21	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		03/05/10 14:21	127-18-4	
Toluene	ND	ug/L	1.0	1		03/05/10 14:21	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/05/10 14:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/05/10 14:21	75-69-4	
Vinyl chloride	**2.3**	ug/L	0.20	1		03/05/10 14:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/05/10 14:21	1330-20-7	
cis-1,2-Dichloroethene	**2.6**	ug/L	1.0	1		03/05/10 14:21	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 14:21	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		03/05/10 14:21	1330-20-7	
o-Xylene	**1.8**	ug/L	1.0	1		03/05/10 14:21	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/05/10 14:21	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 14:21	10061-02-6	
4-Bromofluorobenzene (S)	103	%	80-120	1		03/05/10 14:21	460-00-4	
Dibromofluoromethane (S)	95	%	80-122	1		03/05/10 14:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-124	1		03/05/10 14:21	17060-07-0	
Toluene-d8 (S)	94	%	80-123	1		03/05/10 14:21	2037-26-5	

Sample: MW-8 **Lab ID: 253155004** Collected: 02/25/10 15:10 Received: 02/26/10 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/05/10 14:44	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/05/10 14:44	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/05/10 14:44	79-00-5	

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ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 253155

Sample: MW-8 **Lab ID: 253155004** Collected: 02/25/10 15:10 Received: 02/26/10 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1-Dichloroethane	ND	ug/L	1.0	1		03/05/10 14:44	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/05/10 14:44	75-35-4	L2
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 14:44	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/05/10 14:44	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/05/10 14:44	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 14:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 14:44	106-46-7	
Benzene	ND	ug/L	1.0	1		03/05/10 14:44	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		03/05/10 14:44	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/05/10 14:44	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/05/10 14:44	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/05/10 14:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/05/10 14:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/05/10 14:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/05/10 14:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/05/10 14:44	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		03/05/10 14:44	124-48-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/05/10 14:44	100-41-4	
Methyl-tert-butyl ether	**6.9**	ug/L	1.0	1		03/05/10 14:44	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		03/05/10 14:44	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		03/05/10 14:44	127-18-4	
Toluene	ND	ug/L	1.0	1		03/05/10 14:44	108-88-3	
Trichloroethene	**1.7**	ug/L	1.0	1		03/05/10 14:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/05/10 14:44	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		03/05/10 14:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/05/10 14:44	1330-20-7	
cis-1,2-Dichloroethene	**8.1**	ug/L	1.0	1		03/05/10 14:44	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 14:44	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		03/05/10 14:44	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/05/10 14:44	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/05/10 14:44	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 14:44	10061-02-6	
4-Bromofluorobenzene (S)	102	%	80-120	1		03/05/10 14:44	460-00-4	
Dibromofluoromethane (S)	96	%	80-122	1		03/05/10 14:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	80-124	1		03/05/10 14:44	17060-07-0	
Toluene-d8 (S)	93	%	80-123	1		03/05/10 14:44	2037-26-5	

Sample: Trip Blank **Lab ID: 253155005** Collected: 02/25/10 00:00 Received: 02/26/10 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/05/10 12:26	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/05/10 12:26	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/05/10 12:26	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/05/10 12:26	75-34-3	

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ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 253155

Sample: Trip Blank **Lab ID: 253155005** Collected: 02/25/10 00:00 Received: 02/26/10 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		03/05/10 12:26	75-35-4	L2
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 12:26	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/05/10 12:26	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/05/10 12:26	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 12:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/05/10 12:26	106-46-7	
Benzene	ND	ug/L	1.0	1		03/05/10 12:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		03/05/10 12:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/05/10 12:26	75-25-2	
Bromomethane	ND	ug/L	1.0	1		03/05/10 12:26	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		03/05/10 12:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/05/10 12:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/05/10 12:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/05/10 12:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/05/10 12:26	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		03/05/10 12:26	124-48-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/05/10 12:26	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/05/10 12:26	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		03/05/10 12:26	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		03/05/10 12:26	127-18-4	
Toluene	ND	ug/L	1.0	1		03/05/10 12:26	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		03/05/10 12:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/05/10 12:26	75-69-4	
Vinyl chloride	ND	ug/L	0.10	1		03/05/10 12:26	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		03/05/10 12:26	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/05/10 12:26	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 12:26	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		03/05/10 12:26	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		03/05/10 12:26	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/05/10 12:26	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/05/10 12:26	10061-02-6	
4-Bromofluorobenzene (S)	101	%	80-120	1		03/05/10 12:26	460-00-4	
Dibromofluoromethane (S)	95	%	80-122	1		03/05/10 12:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	80-124	1		03/05/10 12:26	17060-07-0	
Toluene-d8 (S)	91	%	80-123	1		03/05/10 12:26	2037-26-5	

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QUALITY CONTROL DATA

Project: 01344 - Blaine
Pace Project No.: 253155

QC Batch: MSV/2109 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 253155001, 253155002, 253155003, 253155004, 253155005

METHOD BLANK: 22872 Matrix: Water
Associated Lab Samples: 253155001, 253155002, 253155003, 253155004, 253155005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/05/10 11:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/05/10 11:34	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/05/10 11:34	
1,1-Dichloroethane	ug/L	ND	1.0	03/05/10 11:34	
1,1-Dichloroethene	ug/L	ND	1.0	03/05/10 11:34	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/05/10 11:34	
1,2-Dichloroethane	ug/L	ND	1.0	03/05/10 11:34	
1,2-Dichloropropane	ug/L	ND	1.0	03/05/10 11:34	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/05/10 11:34	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/05/10 11:34	
Benzene	ug/L	ND	1.0	03/05/10 11:34	
Bromodichloromethane	ug/L	ND	1.0	03/05/10 11:34	
Bromoform	ug/L	ND	1.0	03/05/10 11:34	
Bromomethane	ug/L	ND	1.0	03/05/10 11:34	
Carbon tetrachloride	ug/L	ND	1.0	03/05/10 11:34	
Chlorobenzene	ug/L	ND	1.0	03/05/10 11:34	
Chloroethane	ug/L	ND	1.0	03/05/10 11:34	
Chloroform	ug/L	ND	1.0	03/05/10 11:34	
Chloromethane	ug/L	ND	1.0	03/05/10 11:34	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/05/10 11:34	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/05/10 11:34	
Dibromochloromethane	ug/L	ND	1.0	03/05/10 11:34	
Ethylbenzene	ug/L	ND	1.0	03/05/10 11:34	
m&p-Xylene	ug/L	ND	2.0	03/05/10 11:34	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/05/10 11:34	
Methylene chloride	ug/L	ND	4.0	03/05/10 11:34	
o-Xylene	ug/L	ND	1.0	03/05/10 11:34	
Tetrachloroethene	ug/L	ND	1.0	03/05/10 11:34	
Toluene	ug/L	ND	1.0	03/05/10 11:34	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/05/10 11:34	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/05/10 11:34	
Trichloroethene	ug/L	ND	1.0	03/05/10 11:34	
Trichlorofluoromethane	ug/L	ND	1.0	03/05/10 11:34	
Vinyl chloride	ug/L	ND	0.20	03/05/10 11:34	
Xylene (Total)	ug/L	ND	3.0	03/05/10 11:34	
1,2-Dichloroethane-d4 (S)	%	107	80-124	03/05/10 11:34	
4-Bromofluorobenzene (S)	%	102	80-120	03/05/10 11:34	
Dibromofluoromethane (S)	%	97	80-122	03/05/10 11:34	
Toluene-d8 (S)	%	93	80-123	03/05/10 11:34	

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QUALITY CONTROL DATA

Project: 01344 - Blaine
Pace Project No.: 253155

LABORATORY CONTROL SAMPLE & LCSD:		22873		22874						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	20	15.8	17.8	79	89	69-135	12	30	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	18.8	94	94	69-123	.03	30	
1,1,2-Trichloroethane	ug/L	20	17.5	17.2	88	86	76-114	2	30	
1,1-Dichloroethane	ug/L	20	15.6	16.9	78	84	74-124	8	30	
1,1-Dichloroethene	ug/L	20	13.6	15.9	68	79	69-139	16	30	L0
1,2-Dichlorobenzene	ug/L	20	17.3	18.5	86	92	74-118	7	30	
1,2-Dichloroethane	ug/L	20	19.4	19.1	97	96	73-127	2	30	
1,2-Dichloropropane	ug/L	20	18.0	18.6	90	93	72-126	3	30	
1,3-Dichlorobenzene	ug/L	20	17.3	18.2	86	91	73-119	5	30	
1,4-Dichlorobenzene	ug/L	20	17.1	17.7	85	89	73-115	4	30	
Benzene	ug/L	20	18.6	19.9	93	100	75-124	7	30	
Bromodichloromethane	ug/L	20	16.7	17.0	84	85	77-126	2	30	
Bromoform	ug/L	20	14.3	14.2	71	71	61-131	.7	30	
Bromomethane	ug/L	20	13.3	15.4	67	77	58-139	15	30	
Carbon tetrachloride	ug/L	20	15.0	16.9	75	84	67-136	12	30	
Chlorobenzene	ug/L	20	16.6	17.4	83	87	78-115	5	30	
Chloroethane	ug/L	20	15.1	17.6	75	88	58-137	16	30	
Chloroform	ug/L	20	18.8	20.3	94	102	75-124	8	30	
Chloromethane	ug/L	20	14.2	17.1	71	85	50-129	19	30	
cis-1,2-Dichloroethene	ug/L	20	17.3	18.8	86	94	78-126	9	30	
cis-1,3-Dichloropropene	ug/L	20	16.6	16.0	83	80	78-159	3	30	
Dibromochloromethane	ug/L	20	14.9	15.2	75	76	81-125	2	30	L0
Ethylbenzene	ug/L	20	17.7	19.5	89	97	76-124	9	30	
m&p-Xylene	ug/L	40	31.6	34.2	79	85	75-124	8	30	
Methyl-tert-butyl ether	ug/L	20	17.4	17.6	87	88	72-130	.9	30	
Methylene chloride	ug/L	20	16.5	17.9	82	90	69-124	8	30	
o-Xylene	ug/L	20	15.7	17.2	78	86	76-121	9	30	
Tetrachloroethene	ug/L	20	15.1	17.1	76	85	70-127	12	30	
Toluene	ug/L	20	16.7	18.0	83	90	75-124	8	30	
trans-1,2-Dichloroethene	ug/L	20	16.4	18.2	82	91	72-129	11	30	
trans-1,3-Dichloropropene	ug/L	20	13.8	13.7	69	69	69-122	.4	30	
Trichloroethene	ug/L	20	17.0	18.8	85	94	78-124	10	30	
Trichlorofluoromethane	ug/L	20	18.5	22.5	93	112	60-147	19	30	
Vinyl chloride	ug/L	20	16.8	19.5	84	98	56-136	15	30	
Xylene (Total)	ug/L	60	47.3	51.4	79	86	76-123	8	30	
1,2-Dichloroethane-d4 (S)	%				106	105	80-124			
4-Bromofluorobenzene (S)	%				97	95	80-120			
Dibromofluoromethane (S)	%				104	106	80-122			
Toluene-d8 (S)	%				91	93	80-123			

Pace Analytical®
www.pacelabs.com

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

QUALIFIERS

Project: 01344 - Blaine
Pace Project No.: 253155

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

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 01344 - Blaine
Pace Project No.: 253155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
253155001	**MW-3**	EPA 5030B/8260	MSV/2109		
253155002	**MW-4**	EPA 5030B/8260	MSV/2109		
253155003	**MW-7**	EPA 5030B/8260	MSV/2109		
253155004	**MW-8**	EPA 5030B/8260	MSV/2109		
253155005	**Trip Blank**	EPA 5030B/8260	MSV/2109		

Sample Condition Upon Receipt

Pace Analytical

Client Name: Stantec

Project # 253155

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: 5.3 Biological Tissue is Frozen: Yes No

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

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~~ 2/26/10 AR		~~☐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.
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 Laboratories
940 S. Harney Street, Seattle WA
(206) 767-5063

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

Purchase Order #: 4512896492
ConocoPhillips AOC#: 01344

DATE: 02/25/10
PAGE: 1 of 1

SAMPLING COMPANY: Stantec	Valid Value ID:
ADDRESS: 12034 134th Court NE, Suite 102, Redmond, WA 98052	
PROJECT CONTACT (Hardcopy or PDF Report to): Chris Gdak	
TELEPHONE: (425) 298-1023	FAX: (425) 298-1020
E-MAIL: chris.gdak@stantec.com	
SAMPLER NAME(S) (Print): David Reitz	CONSULTANT PROJECT NUMBER: 212302363

CONOCOPHILLIPS SITE NUMBER: 255028	GLOBAL ID NO.:
SITE ADDRESS (Street and City): 247 D Street, Blaine, WA	ConocoPhillips Manager: Myron Smith
EDF DELIVERABLE TO (RP or Designee):	PHONE NO.:
E-MAIL:	LAB USE ONLY

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 ☑

REQUESTED ANALYSES

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

253155

TEMPERATURE ON RECEIPT C°: 5.3

* 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.	HVOCs by 8260B	BTEX by 8260B	MTBE by 8260B
	MW-3	MW-3	02/25/10	1410	GW	6	X	X	X
	MW-4	MW-4	"	1440	GW	6	X	X	X
	MW-7	MW-7	"	1540	GW	6	X	X	X
	MW-8	MW-8	"	1510	GW	6	X	X	X
	—	TB				6	X	X	X

Relinquished by: (Signature)	Received by: (Signature)	Date: 02/26/10	Time: 1500
Relinquished by: (Signature)	Received by: (Signature) Jenny Cross/Pace	Date: 2/26/10	Time: 1500
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

9/19/03 Revision

Sample Container Count

CLIENT: Stantec 253155

COC PAGE 1 of 1

COC ID# _____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU				Comments
1	6														
2	6														
3	6														
4	6														
5	6														Trip blank
6															
7															
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			Wipe/Swab			