

RECEIVED

NOV 13 2008

DEPT. OF ECOLOGY
TCP-NWRO

**QUARTERLY GROUNDWATER
MONITORING REPORT FOR**

**CONOCOPHILLIPS
COMPANY**

RM&R #1571

200 South 36th Street

Bellingham, Washington



Stantec

Stantec Consulting Corporation
12034 - 134th Court Northeast Suite 102
Redmond WA 98052
Tel: (425) 372-1600
Fax: (425) 372-1700

RECEIVED

NOV 13 2008

DEPT. OF ECOLOGY
TCP-NWRO

November 11, 2008

Mr. Mark Adams
Washington Dept. of Ecology
3190 160th Avenue SE
Bellevue, WA 98008-5452

Dear Mr. Adams:

Enclosed is a copy of the 2nd Quarter 2008 Groundwater Monitoring Report for ConocoPhillips Site 256380 (RM&R 1571), 200 South 36th Street, Bellingham, WA.

If you have any questions regarding the report, please contact Chris Gdak at 425-372-1662.

Thank you.

Sincerely,

Pamela Olsen
Program Assistant



Stantec

Stantec Consulting Corporation
12034 134th Court NE, Suite 102
Redmond, WA 98052
Tel: (425) 372-1600
Fax: (425) 372-1650

Quarterly Groundwater Monitoring Report - Second Quarter 2008
ConocoPhillips Service Station No. 256380 (RM&R #1571)
Washington Department of Ecology Voluntary Cleanup Program ID #NW1487
200 South 36th Street
Bellingham, Washington 98225

Stantec Project No.:
01CP.01571.41.8521

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

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

Prepared on behalf of:
ConocoPhillips Company
Mr. Michael D. Noll
Site Manager
11921 - 185th Ave. SE, Snohomish, WA 98290

November 7, 2008

Dear Mr. Adams:

Stantec Consulting Corporation (Stantec) is submitting 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 represents the results of groundwater monitoring and sampling performed by Stantec on June 11, 2008 at ConocoPhillips Service Station No. 256380 (RM&R #1571; DOE VCP #NW1487), located at 200 South 36th Street, Bellingham, Washington (hereinafter referred to as the site). The site location is shown on Figure 1. Groundwater monitoring and sampling was completed in accordance with Stantec's protocols for groundwater monitoring events (Attachment 1).

GROUNDWATER MONITORING AND SAMPLING

On June 11, 2008, Stantec conducted second quarter 2008 groundwater monitoring and sampling at the site. Eight groundwater monitoring wells (MW-1 through MW-8) were gauged and sampled.

Monitoring Well Gauging

The monitoring wells were gauged for the presence of separate phase hydrocarbons (SPH) and depth to groundwater prior to the beginning of purging and sampling. SPH was not present in the groundwater monitoring wells. The depth to groundwater ranged from 4.21 feet (MW-5) to 8.25 feet (MW-2) below the top of casing (TOC). These depths to groundwater were used to calculate the groundwater elevation in each well, and these elevations were used to evaluate the groundwater flow direction and gradient. Well locations and groundwater flow direction are shown on Figure 2. A mound was present at the site, running approximately from the southeast corner of the site to the northwest corner. The groundwater flow direction was evaluated to have a northeast component with an approximate gradient of 0.043 feet per foot (ft/ft), and a southwest component with an approximate gradient of 0.035 ft/ft. These gradients are consistent with historical data.

Groundwater gauging data for the current quarter and the previous three quarters are summarized in Table 1. Current and historical groundwater gauging data are summarized in Table 2.

Monitoring Well Purging

Once the depth to SPH (if present) and groundwater were measured in the site wells, the wells were purged via low-flow methodology using a peristaltic pump and dedicated polyethylene tubing. Water quality parameters were measured during purging and recorded on field data

sheets (Attachment 2). Approximately 0.3 liters of groundwater was purged from each well. A total of approximately 3 liters of purged groundwater was stored onsite in a 55-gallon steel drum, pending laboratory waste characterization and offsite disposal.

Monitoring Well Sampling

Following purging operations, groundwater samples were collected using a peristaltic pump and placed into appropriate containers for the requested analyses. Samples that were analyzed for full benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) and total petroleum hydrocarbons gasoline range organics (TPH-G) were contained in 40 milliliter (mL) volatile organic analyte vials (VOAs) and preserved with hydrochloric acid (HCl). Samples that were analyzed for total petroleum hydrocarbons diesel range organics (TPH-D) and total petroleum hydrocarbons as oil/heavy range organics (TPH-O) were contained in 1-liter amber bottles preserved with HCl.

Once the sample containers were filled and sealed, they were labeled with the site name, sample name, sample number, collection date and time, preservative used, and analyses requested. This information was included on the chain-of-custody form. The containers were placed on ice in an insulated cooler for delivery under chain-of-custody documentation to Lancaster Laboratories, located in Lancaster, Pennsylvania.

GROUNDWATER SAMPLING RESULTS

Analytical Results

During the second quarter 2008, groundwater samples were analyzed for the presence BTEX and MTBE by Environmental Protection Agency (EPA) Method 8260B, TPH-G by the Washington State DOE Method NWTPH-Gx, and TPH-D and TPH-O by DOE Method NWTPH-Dx, with silica gel cleanup for TPH-D. Current groundwater analytical results are summarized in Table 1, along with the analytical results from the previous three quarters. Historical analytical results are summarized in Table 2. Analytical results for TPH-G, TPH-D, TPH-O, BTEX, and MTBE are included on Figure 3 for the current quarter and the three previous quarters. A summary of the analytical results includes the following:

- TPH-G was reported in groundwater sample MW-7 at a concentration of 240 micrograms per liter ($\mu\text{g/L}$). This concentration did not exceed the Ecology Model Toxics Control Act (MTCA) Method A cleanup level of 1,000 $\mu\text{g/L}$.
- TPH-D was reported in groundwater samples MW-3, MW-5, MW-7, and MW-8 at concentrations 100 $\mu\text{g/L}$, 91 $\mu\text{g/L}$, 1,300 $\mu\text{g/L}$, and 240 $\mu\text{g/L}$, respectively. The reported TPH-D concentration in groundwater sample MW-7 exceeded the MTCA Method A

cleanup level of 500 µg/L. It should be noted that the laboratory reporting limit (RL) for TPH-D in groundwater sample MW-1 exceeded the MTCA Method A cleanup level. See the Laboratory Quality Control section for further discussion.

- TPH-O was reported in groundwater samples MW-3, MW-6, MW-7, and MW-8 at concentrations of 560 µg/L, 250 µg/L, 860 µg/L, and 1,000 µg/L, respectively. The reported TPH-O concentrations in groundwater samples MW-3, MW-7 and MW-8 exceeded the MTCA Method A cleanup level of 500 µg/L. It should be noted that the laboratory RL for TPH-O in groundwater sample MW-1 exceeded the MTCA Method A cleanup level. See the Laboratory Quality Control section for further discussion.
- Benzene was reported in groundwater sample MW-1 at a concentration of 10 µg/L. This concentration exceeded the MTCA Method A cleanup level of 5 µg/L for benzene.
- MTBE was reported in groundwater sample MW-1 at a concentration of 1 µg/L. The reported MTBE concentration did not exceed the MTCA Method A cleanup level of 20 µg/L.
- The remaining groundwater sampled did not contain hydrocarbon concentrations above the laboratory reporting limits.

A copy of the certified laboratory analytical report and chain of custody documentation from Lancaster Laboratories are included as Attachment 3.

Laboratory Quality Control

The preservation requirements for groundwater sample MW-8 were not met. The vial submitted for the analysis of TPH-G, BTEX, and MTBE arrived at the laboratory with a pH of 6. The sample was extracted on June 19, 2008, which is one day after the recommended hold time of seven days for an unpreserved sample. There is a possibility that petroleum hydrocarbons present in the groundwater sample volatilized between sampling and laboratory analysis. However, monitoring well MW-8 has been historically reported as non-detect for TPH-G, BTEX, and MTBE. Therefore the non-detect analytical results for well MW-8 can likely be considered valid.

Due to the sample matrix (which included "thick sediment"), a reduced aliquot of the sample was used to analyze groundwater sample MW-1 for the presence of TPH-D and TPH-O. The reporting limits for TPH-D and TPH-O were subsequently raised to reflect this dilution. The raised reporting limits were greater than the MTCA Method A cleanup levels of 500 µg/L for both TPH-D and TPH-O. However, TPH-D and TPH-O have not been reported at concentrations exceeding the Method A cleanup levels since the first quarter 2002 and the fourth quarter 2003,

respectively, and have been reported as non-detect since the first quarter 2006. TPH-D and TPH-O are most likely not present in MW-1.

In the analysis of groundwater samples MW-1, MW-2, MW-3, and MW-4, the laboratory control samples (LCS) for TPH-D and TPH-O were outside the quality control limits. No sample remained for reextraction, so the results were reported. TPH-D and TPH-O have not historically been detected in these monitoring wells, so the results for groundwater samples MW-1, MW-2, and MW-4 can be considered valid. Concentrations in monitoring well MW-3 will be observed during the next quarter to determine if these concentrations of TPH-D and TPH-O (100 µg/L and 560 µg/L, respectively) can be considered valid.

The laboratory report from Lancaster Laboratories did not report any additional quality assurance/quality control (QA/QC) issues.

WASTE DISPOSAL

Purge and rinsate water generated during the monitoring and sampling event was temporarily stored onsite in a DOT approved, labeled 55-gallon steel drum. On June 27, 2008 the 55-gallon drum was removed by General Environmental Management, Inc. for proper disposal. The manifest for the disposal of this drum will be submitted under separate cover.

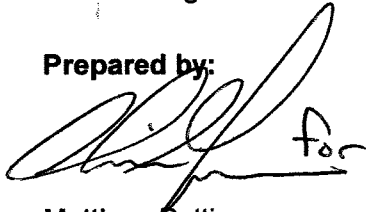
CONCLUSIONS

Between the first quarter 2008 and the second quarter 2008 dissolved phase hydrocarbon compounds slightly increased in groundwater samples collected at MW-3 and MW-5 through MW-8. Groundwater samples MW-1, MW-2 and MW-4 remained consistent and/or below laboratory RLs.

LIMITATIONS

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional 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 investigation. No other warranties, expressed or implied, are made by Stantec.

Prepared by:

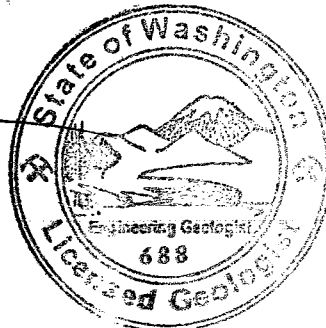


Matthew Battin
Project Scientist

Reviewed by:



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



JEFFREY S. THOMPSON

ATTACHMENTS

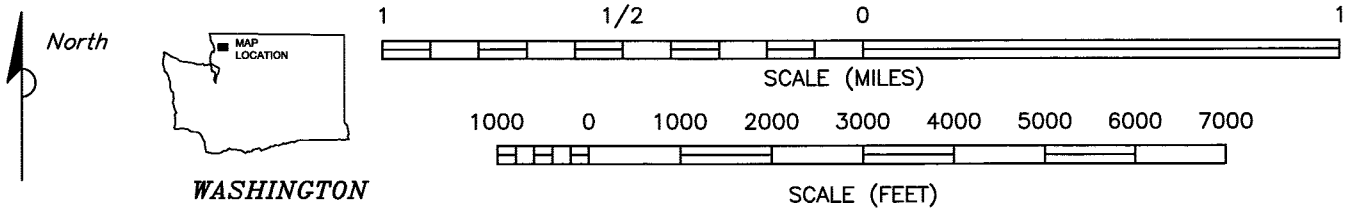
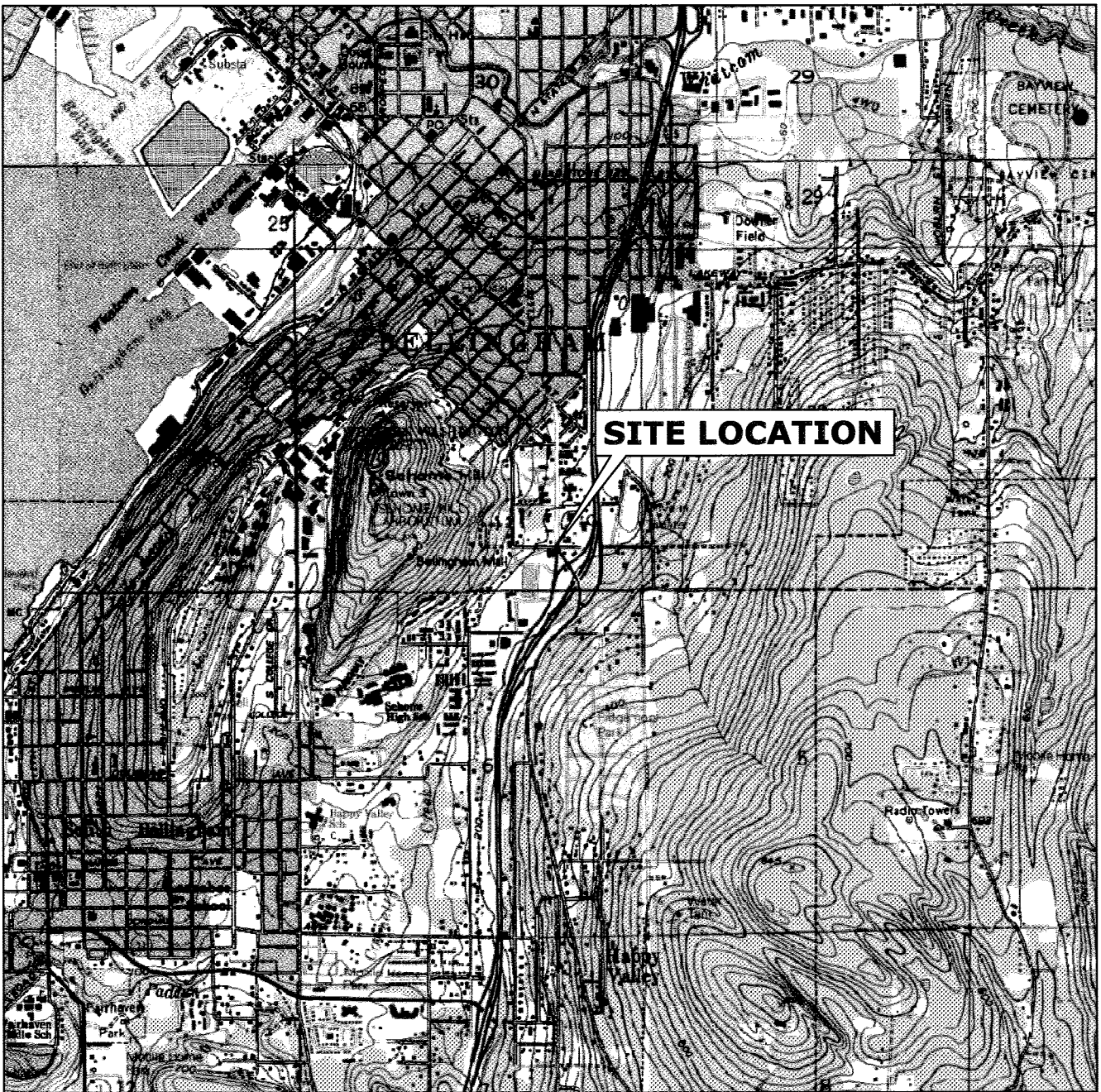
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map
- Figure 3 Recent Groundwater Concentration Map

- Table 1 Recent Groundwater Elevations and Sample Analytical Results
- Table 2 Historical Groundwater Elevations and Sample Analytical Results


- Attachment 1 Field and Laboratory Procedures
- Attachment 2 Field Data Sheets
- Attachment 3 Certified Laboratory Analytical Report and Chain of Custody Documentation

cc: Mr. Michael D. Noll, ConocoPhillips Company (via electronic upload)
Mr. Victor Boulos, Keith Oil Company, P.O. Box 189, Ferndale, WA 98248

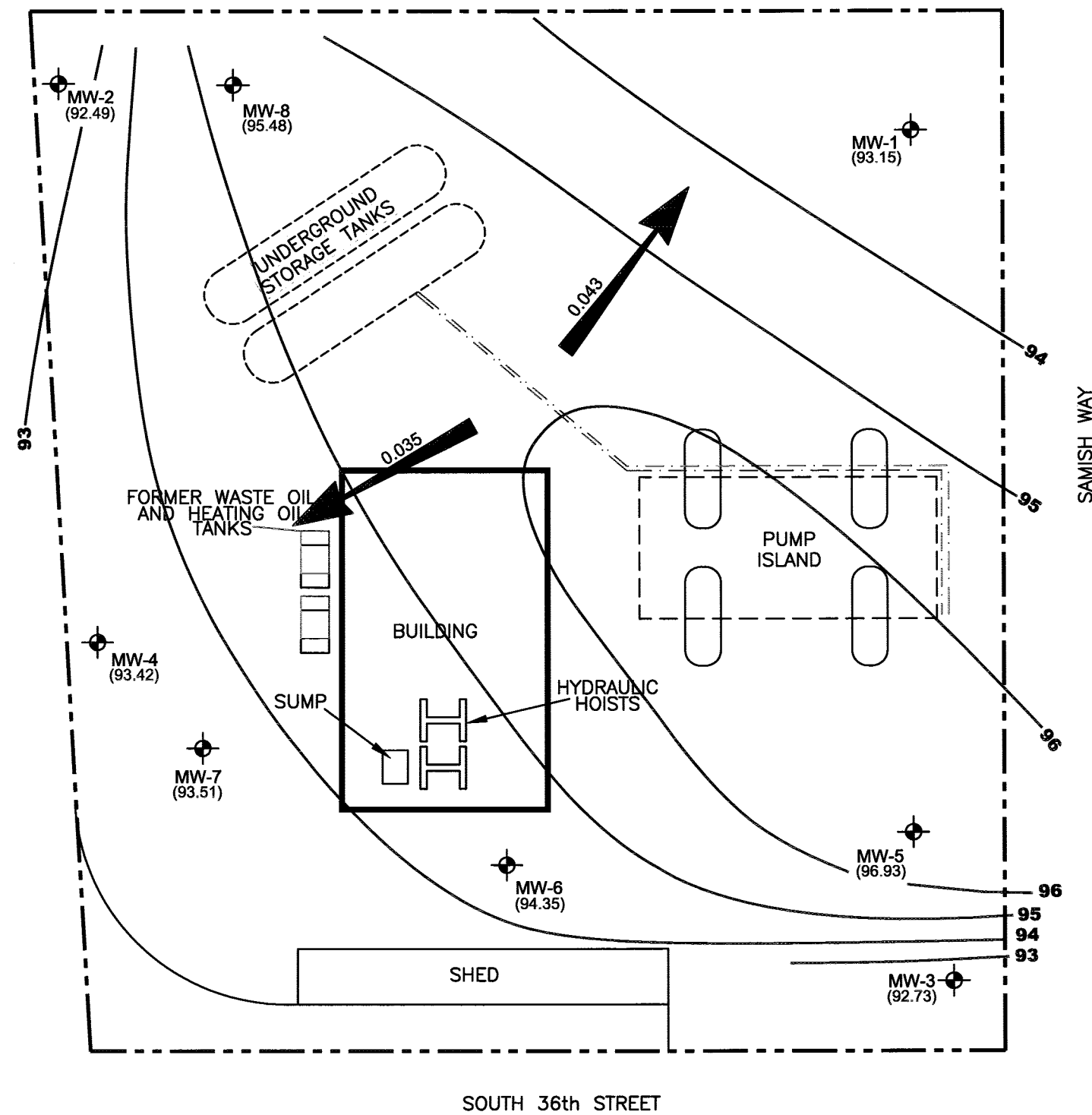
Figures



REFERENCE: USGS 7.5 MINUTE QUADRANGLE; BELLINGHAM SOUTH, WASHINGTON; 1972

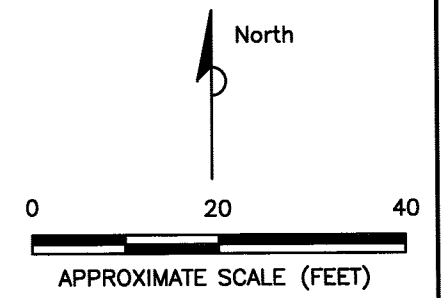
 Stantec 12034 134th COURT, SUITE 102 REDMOND, WASHINGTON PHONE: (425) 372-1600 FAX: (425) 372-1650	FOR: ConocoPhillips FACILITY NO 256380 (RM & R 1571) 200 SOUTH 36th STREET BELLINGHAM, WASHINGTON		SITE LOCATION MAP		FIGURE: 1
	JOB NUMBER: 01CP.01571.40	DRAWN BY: CS	CHECKED BY:	APPROVED BY:	DATE: 9/24/07

BILL McDONALD PARKWAY



LEGEND

- MONITORING WELL LOCATION
- SITE BOUNDARY
- GROUNDWATER**
- (70.60) GROUNDWATER ELEVATION (FEET)
- INFERRED GROUNDWATER FLOW DIRECTION
- 94 GROUNDWATER ELEVATION CONTOUR (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

 12034 134th COURT, SUITE 102 REDMOND, WASHINGTON PHONE: (425) 372-1600 FAX: (425) 372-1650	FOR: FACILITY NO. 256380 (RM & R 1571) 200 SOUTH 36th STREET BELLINGHAM, WASHINGTON	GROUNDWATER ELEVATION CONTOUR MAP JUNE 11, 2008		FIGURE: 2
	JOB NUMBER: 01CP.01571.41	DRAWN BY: ARA	CHECKED BY: AM	APPROVED BY: AM

MW-8	9/6/07	12/3/07	3/5/08	6/11/08
TPHg	<50	<50	<50	<50 ^d
TPHd	<76	<76	<150	240
TPHo	<95	290	860	1,000
B	<0.5	<0.5	<0.5	<0.5 ^d
T	<0.7	<0.7	<0.7	0.7 ^d
E	<0.8	<0.8	<0.8	<0.5 ^d
X	<0.8	<0.8	<0.8	<0.5 ^d
MTBE	<0.5	<0.5	<0.5	<0.5 ^d

MW-2	9/6/07	12/3/07	3/5/08	6/11/08
TPHg	<50	<50	<50	<50
TPHd	<76	<75	<800 ^{c,e}	<76 ^b
TPHo	<95	<94	<1,000 ^{c,e}	<95 ^b
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.5
E	<0.8	<0.8	<0.8	<0.5
X	<0.8	<0.8	<0.8	<0.5
MTBE	<0.5	<0.5	<0.5	<0.5

MW-1	9/6/07	12/3/07	3/5/08	6/11/08
TPHg	<50	<50	<50 ^d	<50
TPHd	<76	<400 ^c	<800 ^{c,e}	<800 ^{b,c,e}
TPHo	<95	<500 ^c	<1,000 ^{c,e}	<1,000 ^{b,c,e}
B	<0.5	<0.5	11	10
T	<0.7	<0.7	<0.7	<0.5
E	<0.8	<0.8	<0.8	<0.5
X	<0.8	<0.8	<0.8	<0.5
MTBE	0.5	0.6	1	1

MW-4	9/6/07	12/3/07	3/5/08	6/11/08
TPHg	<50	<50	<50	<50
TPHd	170	<76	<77	<75 ^b
TPHo	<95	<95	<96	<94 ^b
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.5
E	<0.8	<0.8	<0.8	<0.5
X	<0.8	<0.8	<0.8	<0.5
MTBE	0.6	<0.5	<0.5	<0.5

MW-7	9/6/07	12/3/07	3/5/08	6/11/08
TPHg	250	400	240	240
TPHd	1,000	970	930	1,300
TPHo	160	140	100	860
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.5
E	<0.8	<0.8	<0.8	<0.5
X	<0.8	<0.8	<0.8	<0.5
MTBE	0.8	<0.5	<0.5	<0.5

MW-6	9/6/07	12/3/07	3/5/08	6/11/08
TPHg	<50	<50	<50	<50
TPHd	<76	<76	<76	<76
TPHo	<95	<95	<95	250
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.5
E	<0.8	<0.8	<0.8	<0.5
X	<0.8	<0.8	<0.8	<0.5
MTBE	<0.5	<0.5	<0.5	<0.5

MW-5	9/6/07	12/3/07	3/5/08	6/11/08
TPHg	<50	<50	<50	<50
TPHd	<76	99	<76	91
TPHo	<95	<95	<95	<94
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.5
E	<0.8	<0.8	<0.8	<0.5
X	<0.8	<0.8	<0.8	<0.5
MTBE	<0.5	<0.5	<0.5	<0.5

MW-3	9/6/07	12/3/07	3/5/08	6/11/08
TPHg	<50	<50	<50	<50
TPHd	<76	<75	<76	100 ^b
TPHo	<95	<94	<95	560^b
B	<0.5	<0.5	<0.5	<0.5
T	<0.7	<0.7	<0.7	<0.5
E	<0.8	<0.8	<0.8	<0.5
X	<0.8	<0.8	<0.8	<0.5
MTBE	<0.5	<0.5	<0.5	<0.5

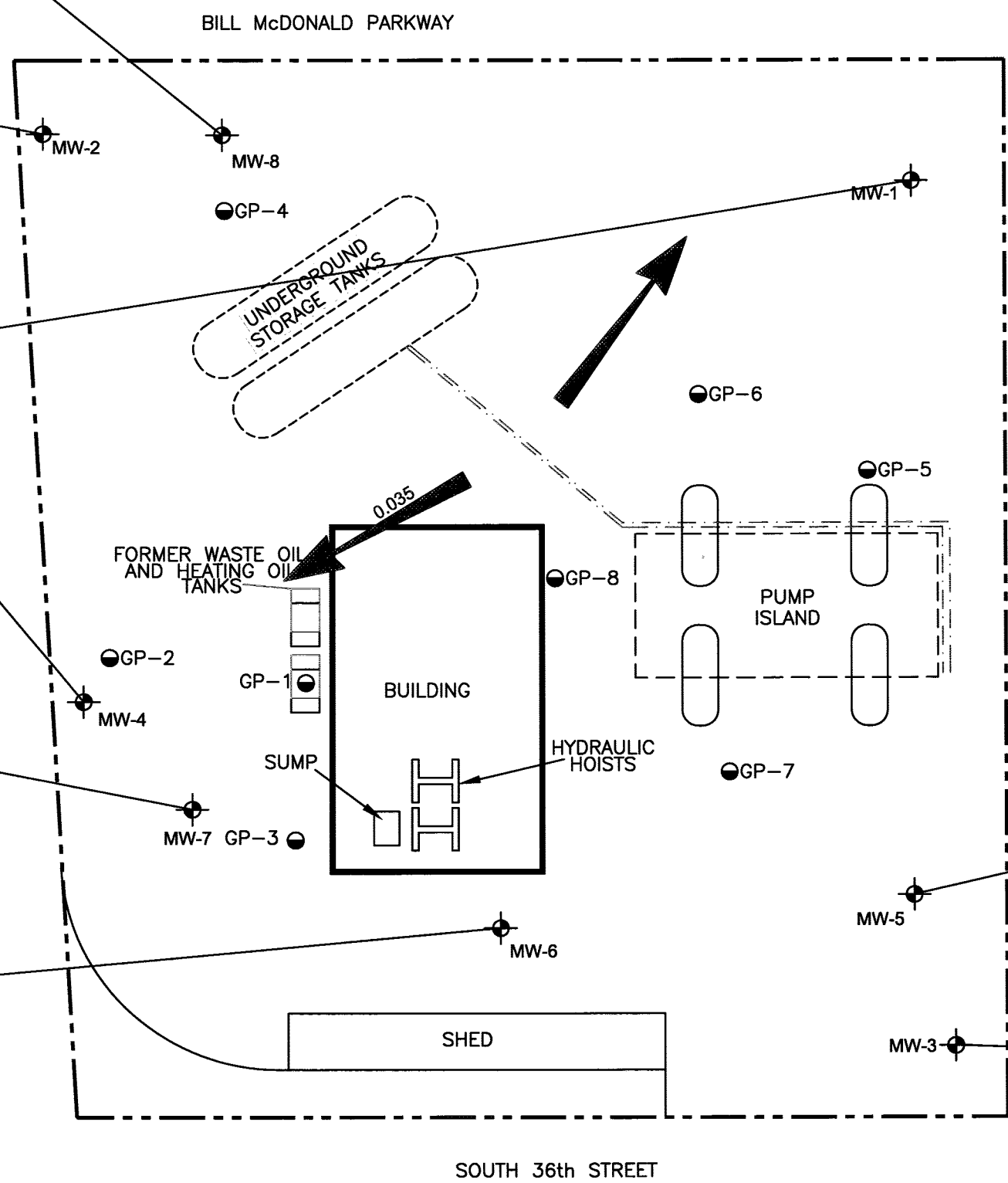
- LEGEND**
- MONITORING WELL LOCATION
 - SITE BOUNDARY
 - INFERRED GROUNDWATER FLOW DIRECTION

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
MTBE	METHYL TERT-BUTYL ETHER

UNITS IN MICROGRAMS PER LITER (µg/L)

- < LESS THAN LABORATORY REPORTING LIMITS
- ND NOT DETECTED AT OR ABOVE THE LABORATORY METHOD DETECTION LIMIT
- NOT ANALYZED OR NOT APPLICABLE
- 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.



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

 12034 134th COURT, SUITE 102 REDMOND, WASHINGTON PHONE: (425) 372-1600 FAX: (425) 372-1650	FOR: FACILITY NO. 256380 (RM & R 1571) 200 SOUTH 36th STREET BELLINGHAM, WASHINGTON	RECENT GROUNDWATER CONCENTRATION MAP JUNE 11, 2008	FIGURE: 3
	JOB NUMBER: 01CP.01571.41	DRAWN BY: ARA	CHECKED BY: AM
			DATE: 9/18/08

Tables

TABLE 1
RECENT GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 256380 (RM&R 1571)
200 South 36th Street
Bellingham, Washington

Well-Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons				
		Depth to Water	SPH Thickness	GW Elevation	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
MW-1 98.49	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
MW-2 100.74	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	<75	<94	<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
MW-3 97.84	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	<75	<94	<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
MW-4 99.44	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
MW-5 101.14	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
MW-6 99.74	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

TABLE 1
RECENT GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 256380 (RM&R 1571)
 200 South 36th Street
 Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons				
		Depth to Water	SPH Thickness	GW Elevation	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
MW-7	09/06/07	7.47	--	92.17	250	1,000	160	<0.5	<0.7	<0.8	<0.8	0.8
99.64	12/03/07	4.97	--	94.67	400	970	140	<0.5	<0.7	<0.8	<0.8	<0.5
	03/05/08	6.47	--	93.17	240	930	100	<0.5	<0.7	<0.8	<0.8	<0.5
	06/11/08	6.13	0.00	93.51	240	1,300	860	<0.5	<0.5	<0.5	<0.5	<0.5
MW-8	09/06/07	8.45	--	94.25	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5
102.7	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
MTCA Method A Cleanup Levels:					1000/800^a	500	500	5	1000	700	1000	20

NOTES:

Concentrations are in micrograms per liter (µg/L).

DTW = Depth to water in feet below top of casing.

GW Elev. = Groundwater elevation relative to top of casing elevation.

TPH-G = Gasoline range hydrocarbons by Northwest Method NWTPH-Gx.

TPH-D and TPH-O = Diesel and heavy oil range hydrocarbons, respectively, by Northwest Method NWTPH-Dx.

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes by EPA Method 5030/8260B.

Total lead by ICP-US EPA Method 6010.

-- = Not Analyzed or Sampled.

< = Less than the stated laboratory reporting limit.

Bolded values equal or exceed MTCA Method A Cleanup Levels.

^a Cleanup 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.

^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 MTCA Method A cleanup levels

TABLE 2
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

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

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Lead		
		TOC Elevation	Depth to Water	SPH Thickness	GW Elevation	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Total Pb	Diss Pb
MW1	03/11/99	98.49	4.96	--	93.53	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	2.41	--
	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	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

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

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Lead		
		TOC Elevation	Depth to Water	SPH Thickness	GW Elevation	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Total Pb	Diss Pb
MW2	03/11/99		7.93	--	92.81	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	162	--
100.74	05/25/99		8.18	--	92.56	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--
	08/12/99		8.94	--	91.80	<50.0	281	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--
	12/07/99		8.04	--	92.70	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	17.0	--
	02/10/00		8.32	--	92.42	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	49.1	--
	02/02/01		6.40	--	94.34	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	<1.00
	02/08/02		7.77	--	92.97	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	40.6	<1.00
	09/20/02		9.23	--	91.51	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	12/04/02		9.15	--	91.59	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	2.89	--
	03/05/03		8.28	--	92.46	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	19.8	--
	06/10/03		8.56	--	92.18	<50.0	<284	<568 ^e	<0.500	1.36	<0.500	2.53	--	40.1	--
	09/03/03		9.13	--	91.61	<80.0	<298	<595 ^e	0.829	1.25	0.519	2.49	--	33.3	--
	12/12/03		8.120	--	92.620	<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	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 256380
 200 South 36th Street
 Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Lead		
		TOC Elevation	Depth to Water	SPH Thickness	GW Elevation	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Total Pb	Diss Pb
MW3	03/11/99		4.93	--	92.91	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	6.35	--
97.84	05/25/99		5.19	--	92.65	210	383	<750 ^e	<0.500	<0.500	3.04	3.93	--	--	--
	08/12/99		5.70	--	92.14	56.3	<250	<750 ^e	<0.500	<0.500	0.732	1.84	--	--	--
	12/07/99		5.03	--	92.81	94.7	<250	<750 ^e	<0.500	0.598	<0.500	<1.00	--	4.40	--
	02/10/00		4.92	--	92.92	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	17.6	--
	02/02/01		4.76	--	93.08	63.0	413	<750 ^e	<0.500	<0.500	0.503	<1.00	--	--	<1.00
	02/08/02		4.59	--	93.25	91.5	410	<500	<0.500	<0.500	<0.500	<1.00	--	22.3	<1.00
	09/20/02		5.88	--	91.96	129	372	<500	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	12/04/02		5.26	--	92.58	147	371	<500	<0.500	<0.500	<0.500	<1.00	--	4.60	--
	03/05/03		4.70	--	93.14	62.2	<250	<500	<0.500	<0.500	<0.500	<1.00	--	12.5	--
	06/10/03		5.31	--	92.53	<50.0	<250	<500	<0.500	0.562	<0.500	<1.00	--	6.90	--
	09/03/03		5.66	--	92.18	<80.0	<250	<500	2.12	0.753	<0.500	<1.00	--	<1.00	--
	12/12/03		4.785	--	93.055	<50.0	<119	<237	<0.250	<0.500	<0.500	<1.500	--	<5.0	--
	03/24/04		4.81	--	93.03	<100	<128	<256	<1.00	<1.00	<1.00	<3.00	--	20.0	--
	6/17/2004		4.97	--	92.87	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	--	--	<10.0
	9/23/2004		5.03	--	92.81	140	<255	<509 ^e	<0.50	<0.50	<0.50	<1.0	--	<10.0	--
	12/29/2004		4.53	--	93.31	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	--	<10.0
	3/4/2005		5.02	--	92.82	<100	<241	<482	<1.00	<1.00	<1.00	<3.00	--	<10.0	--
	6/9/2005		5.25	--	92.59	<100	<238	<475	<1	<1	<1	<3	<1	--	<15
	9/15/2005		7.20	--	90.64	<48	<75	<93	<0.5	<0.5	<0.5	<1.5	--	--	<0.87
	12/15/2005		5.09	--	92.75	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
	3/10/2006		4.75	--	93.09	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
	06/30/06		5.40	--	92.44	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--
	03/07/07		4.42	--	93.42	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--
	06/01/07		4.94	--	92.9	<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	--	--

TABLE 2
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

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

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Lead		
		TOC Elevation	Depth to Water	SPH Thickness	GW Elevation	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Total Pb	Diss Pb
MW4	03/11/99	99.44	6.39	--	93.05	<50	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	29.0	--
	05/25/99		6.62	--	92.82	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--
	08/12/99		7.31	--	92.13	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	--
	12/07/99		6.37	--	93.07	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	10.2	--
	02/10/00		6.48	--	92.96	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	23.6	--
	02/02/01		6.37	--	93.07	<50.0	<250	<750 ^e	<0.500	<0.500	<0.500	<1.00	--	--	<1.00
	02/08/02		6.03	--	93.41	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	3.30	<1.00
	09/20/02		7.37	--	92.07	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	12/04/02		7.03	--	92.41	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	<1.00	--
	03/05/03		6.33	--	93.11	<50.0	<284	<568 ^e	<0.500	<0.500	<0.500	<1.00	--	6.81	--
	06/10/03		6.99	--	92.45	<50.0	<250	<500	<0.500	0.687	<0.500	1.26	--	10.5	--
	09/03/03		7.60	--	91.84	<80.0	<312	<625 ^e	0.620	<0.500	<0.500	<1.00	--	2.75	--
	12/12/03		6.485	--	92.955	<50.0	<118	<237	<0.250	<0.500	<0.500	<1.500	--	<5.0	--
	03/24/04		6.54	--	92.90	<100	<133	<265	<1.00	<1.00	<1.00	<3.00	--	<5.0	--
	6/17/2004		5.91	--	93.53	<50.0	<119	<237	<0.250	<0.500	<0.500	<1.50	--	--	<10.0
	9/23/2004		6.52	--	92.92	<50	<259	<518 ^e	<0.50	<0.50	<0.50	<1.0	--	<10.0	--
	12/29/2004		6.14	--	93.30	<100	<240	<480	<1.00	<1.00	<1.00	<3.00	--	--	<10.0
	3/4/2005		6.65	--	92.79	<100	<240	<481	<1.00	<1.00	<1.00	<3.00	--	<10.0	--
	6/9/2005		6.91	--	92.53	<100	<237	<473	<1	<1	<1	<3	<1	--	<15
	9/15/2005		6.10	--	93.34	<48	150	<93	<0.5	<0.5	<0.5	<1.5	--	--	<0.87
	12/15/2005		6.73	--	92.71	<48	180	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
	3/10/2006		6.28	--	93.16	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
	06/03/06		6.80	--	92.64	<48	130	<95	<0.2	<0.2	<0.2	<0.6	0.8	--	--
	03/07/07		5.81	--	93.63	<48	83	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--
	06/01/07		6.60	--	92.84	<50	--	--	<0.5	<0.7	<0.8	<0.8	<0.5	--	--
	09/06/07		7.12	--	92.32	<50	170	<95	<0.5	<0.7	<0.8	<0.8	0.6	--	--
	12/03/07		6.00	--	93.44	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	--	--
	03/05/08		6.17	--	93.27	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	--	--
	06/11/08		6.02	0.00	93.42	<50	<75 ^b	<94 ^b	<0.5	<0.5	<0.5	<0.5	<0.5	--	--

**TABLE 2
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS**

ConocoPhillips Facility No. 256380

200 South 36th Street

Bellingham, Washington

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Lead		
		TOC Elevation	Depth to Water	SPH Thickness	GW Elevation	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Total Pb	Diss Pb
MW-5	1/11/2006		4.04	--	--	<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	--	--
MW-6	1/11/2006		4.89	--	--	<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	--	--
MW-7	1/11/2006		6.07	--	0.00	160	780 ^b	<94 ^b	<0.2	<0.2	<0.2	<0.6	2.5	<8.4	--
99.64	3/10/2006		6.71	--	92.93	140	540	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
	06/30/06		7.31	--	92.33	190	1,000	<480	0.2	<0.2	<0.2	<0.6	2	--	--
	03/07/07		6.00	--	93.64	340	870	<94	<0.5	<0.7	<0.8	<0.8	0.7	--	--
	06/01/07		6.99	--	92.65	210	--	--	<0.5	<0.7	<0.8	<0.8	0.8	--	--
	09/06/07		7.47	--	92.17	250	1,000	160	<0.5	<0.7	<0.8	<0.8	0.8	--	--
	12/03/07		4.97	--	94.67	400	970	140	<0.5	<0.7	<0.8	<0.8	<0.5	--	--
	03/05/08		6.47	--	93.17	240	930	100	<0.5	<0.7	<0.8	<0.8	<0.5	--	--
	06/11/08		6.13	0.00	93.51	240	1,300	860	<0.5	<0.5	<0.5	<0.5	<0.5	--	--

**TABLE 2
HISTORICAL GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS**

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

Well Name	Sample Date	Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Lead	
		Depth to Water	SPH Thickness	GW Elevation	TPH-G	TPH-D	TPH-O	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Total Pb	Diss Pb
MW-8	1/11/2006	7.00	--	--	<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	--	--

MTCA Method A Cleanup Levels	1000/800^a	500	500	5	1000	700	1000	20	15	15
-------------------------------------	-----------------------------	------------	------------	----------	-------------	------------	-------------	-----------	-----------	-----------

NOTES:

TOC = Top of Casing

All concentrations are in ug/L (ppb).

Wellhead elevations were taken from prior consultants reports.

DTW = Depth to water in feet below top of casing

GW Elev. = Groundwater elevation 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.

Prior to 12/12/03 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

ATTACHMENT 1
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 2
FIELD DATA SHEETS**

SITE VISITATION REPORT
2Q08 - CP RM&R 1571 Bellingham, Washington

Name(s) Travis Dickson Date: 6-11-08 Time of Arrival Call-In: 10:00
Arrival Time: 10:00 Departure Time: 3:30 Time of Departure Call-In: 3:30
Who did you call? Tammy

DRUM INVENTORY

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

HEALTH AND SAFETY ASSESSMENT

Filled out H&S.P.

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

10:00 - Arrive on site
check in w/ Store manager + Tammy.
10:20 - Set up equipment + Decon.
10:35 - Crage all wells
11:45 - Begin Sampling.
3:00 Finish Sampling.
Decon equipment.
check in with Tammy
3:30 - left site.

SECOR International Incorporated
HYDROLOGIC DATA SHEET

Gauge Date: 6-11-08

Project Name: CP RM&R 1571 Bellingham

Field Technician: Travis Dickson

Project Number: 01CP.0571.41.8504

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

Flow through cell calibrated Y N X

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.	11:56 11:56		5.34		Y	N	Y	
MW-2		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	12:07		8.25		Y	N	Y	
MW-3		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	12:42		5.11		X	N	Y	
MW-4		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1:24		6.02		Y	N	Y	
MW-5		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1:45		4.21		Y	N	Y	
MW-6		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	2:00		5.39		Y	N	Y	
MW-8		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	2:30		6.22 7.22		X	N	Y	
MW-7		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	3:00		6.13		X	N	Y	

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 6380

PURGED BY: -

WELL I.D.: MV-1

CLIENT NAME: CP

SAMPLED BY: TD

SAMPLE I.D.: MV-1

LOCATION: Bellingham

DATE PURGED: -

START (2400hr) 11:45

END (2400hr) 11:56

DATE SAMPLED: 6/11/08

SAMPLE TIME (2400hr) 11:56

LOW-FLOW USED -

SAMPLE TYPE: Groundwater

Surface Water

Treatment Effluent

Other

CASING DIAMETER: 2" 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) =

DEPTH TO WATER (feet) = 5.34

WATER COLUMN HEIGHT (feet) =

ACTUAL PURGE (L) = 0.3

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>6-11-08</u>	<u>11:59</u>	<u>0.1</u>	<u>18.71</u>	<u>0.713</u>	<u>7.21</u>	<u>C</u>
	<u>11:53</u>	<u>0.1</u>	<u>18.67</u>	<u>0.701</u>	<u>7.39</u>	<u>C</u>
	<u>11:56</u>	<u>0.1</u>	<u>18.41</u>	<u>0.693</u>	<u>7.34</u>	<u>C</u>

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

DEPTH TO PURGE INTAKE DURING PURGE: SAMPLE DTW: 5.51

ANTICIPATED PURGE INTAKE DEPTH: 6.0 ANALYSES: TPH 6

TPH 0

BTEX / MTBE

SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT:

SAMPLING EQUIPMENT: LOW FLOW

Flow Through Cell Disconnected Prior to Sample Collection? YES NO

WELL PAD CONDITION: G

WELL CASING CONDITION: G

WELL VAULT CONDITION: G

SEAL PRESENT?: Y

BOLTS PRESENT?: Y

WELL INTEGRITY: G

WELL TAG: Y

LOCK#: Y

REMARKS:

SIGNATURE: T. Smith Dec 2008

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #: # 6380 PURGED BY: _____ WELL I.D.: MLV-2
 CLIENT NAME: CP SAMPLED BY: Travis Dickson SAMPLE I.D.: MLV-2
 LOCATION: Bellingham

DATE PURGED _____ START (2400hr) 12:05 END (2400hr) 12:17
 DATE SAMPLED # 6-11-08 SAMPLE TIME (2400hr) 12:17 LOW-FLOW USED _____
 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) = _____
 DEPTH TO WATER (feet) = 8.25
 WATER COLUMN HEIGHT (feet) = _____ ACTUAL PURGE (L) = 0.3

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>6-11-08</u>	<u>12:10</u>	<u>0.1</u>	<u>17.21</u>	<u>0.651</u>	<u>7.01</u>	<u>C</u>
	<u>12:13</u>	<u>0.1</u>	<u>17.59</u>	<u>0.649</u>	<u>7.10</u>	<u>C</u>
	<u>12:16</u>	<u>0.1</u>	<u>18.93</u>	<u>0.631</u>	<u>7.17</u>	<u>C</u>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

Calculated Variance of Final Three Samples: _____
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: _____ SAMPLE DTW: 8.35

ANTICIPATED PURGE INTAKE DEPTH: 8.0 ANALYSES: TPHGx
BTEX/MTBE
TPHDx
 SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT: _____ SAMPLING EQUIPMENT: Low Flow

Flow Through Cell Disconnected Prior to Sample Collection? YES x NO _____

WELL PAD CONDITION: G WELL CASING CONDITION: G
 WELL VAULT CONDITION: G SEAL PRESENT?: Y BOLTS PRESENT?: Y
 WELL INTEGRITY: G WELL TAG: Y LOCK#: Y

REMARKS: _____

SIGNATURE: Travis Dickson Page _____ of _____

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #: # 6380 PURGED BY: _____ WELL I.D.: MW-3
 CLIENT NAME: CP SAMPLED BY: Travis Dickson SAMPLE I.D.: MW-3
 LOCATION: Bellingham

DATE PURGED 6 START (2400hr) 12:30 END (2400hr) 12:42
 DATE SAMPLED # 6-11-08 SAMPLE TIME (2400hr) 12:42 LOW-FLOW USED _____
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 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) = _____
 DEPTH TO WATER (feet) = 5.11
 WATER COLUMN HEIGHT (feet) = _____ ACTUAL PURGE (L) = 0.3

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>6-11-08</u>	<u>12:35</u>	<u>0.1</u>	<u>17.21</u>	<u>0.629</u>	<u>7.01</u>	<u>C</u>
	<u>12:38</u>	<u>0.1</u>	<u>17.35</u>	<u>0.617</u>	<u>7.09</u>	<u>C</u>
	<u>12:41</u>	<u>0.1</u>	<u>17.41</u>	<u>0.612</u>	<u>7.09</u>	<u>C</u>

Calculated Variance of Final Three Samples: _____
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: _____ SAMPLE DTW: 5.23

ANTICIPATED PURGE INTAKE DEPTH: 6.0 ANALYSES: TPHGx
BTEX/MTBE
TPHDx
 SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT: _____ SAMPLING EQUIPMENT: Low Flow

Flow Through Cell Disconnected Prior to Sample Collection? YES NO _____

WELL PAD CONDITION: 6 WELL CASING CONDITION: 6
 WELL VAULT CONDITION: 6 SEAL PRESENT?: Y BOLTS PRESENT?: One
 WELL INTEGRITY: 6 WELL TAG: Y LOCK#: YES

REMARKS: _____

SIGNATURE: Travis Dickson Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: # _____ PURGED BY: _____ WELL I.D.: MW-6
 CLIENT NAME: CP SAMPLED BY: Travis Dickson SAMPLE I.D.: MW-6
 LOCATION: Bellingham

DATE PURGED _____ START (2400hr) 1:49 END (2400hr) 2:00
 DATE SAMPLED # 6.11.08 SAMPLE TIME (2400hr) 2:00 LOW-FLOW USED _____
 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) = _____
 DEPTH TO WATER (feet) = 5.39
 WATER COLUMN HEIGHT (feet) = _____ ACTUAL PURGE (L) = 0.3

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
<u>6.11.08</u>	<u>1:54</u>	<u>0.1</u>	<u>17.03</u>	<u>0.691</u>	<u>7.41</u>	<u>C</u>
	<u>1:57</u>	<u>0.1</u>	<u>17.51</u>	<u>0.731</u>	<u>7.31</u>	<u>C</u>
	<u>2:00</u>	<u>0.1</u>	<u>17.49</u>	<u>0.749</u>	<u>7.29</u>	<u>C</u>

Calculated Variance of Final Three Samples: _____
 Acceptable Variance Limits: ≤ 10% ≤ 3% ≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: _____ SAMPLE DTW: 5.43

ANTICIPATED PURGE INTAKE DEPTH: 6.5 ANALYSES: TPHGx
BTEX/MTBE
TPHDx
 SAMPLE VESSEL / PRESERVATIVE: HCL

PURGING EQUIPMENT: _____ SAMPLING EQUIPMENT: Low Flow

Flow Through Cell Disconnected Prior to Sample Collection? YES x NO _____

WELL PAD CONDITION: G WELL CASING CONDITION: G
 WELL VAULT CONDITION: G SEAL PRESENT?: Y BOLTS PRESENT?: Y
 WELL INTEGRITY: G WELL TAG: Y LOCK#: Y

REMARKS: _____

SIGNATURE: Travis Dickson Page ___ of ___

ATTACHMENT 3
CERTIFIED LABORATORY ANALYTICAL REPORT
AND CHAIN OF CUSTODY DOCUMENTATION

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425**SAMPLE GROUP**

The sample group for this submittal is 1095974. Samples arrived at the laboratory on Friday, June 13, 2008. The PO# for this group is 4509020542 and the release number is NOLL.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-1 Grab Water Sample	5389016
MW-2 Grab Water Sample	5389017
MW-3 Grab Water Sample	5389018
MW-4 Grab Water Sample	5389019
MW-5 Grab Water Sample	5389020
MW-6 Grab Water Sample	5389021
MW-7 Grab Water Sample	5389022
MW-8 Grab Water Sample	5389023
Trip Blank Water Sample	5389024

ELECTRONIC Stantec
COPY TO
ELECTRONIC Stantec
COPY TO
ELECTRONIC Stantec
COPY TO

Attn: Alice Larsen

Attn: Tammy Parise

Attn: Joseph Rounds



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Dorothy M. Love".

Dorothy M. Love
Group Leader

Lancaster Laboratories Sample No. WW5389016
Group No. 1095974
MW-1 Grab Water Sample
Site# 1571 (256380)
200 S 36th St - Bellingham, WA
Collected: 06/11/2008 11:56 by TD
Account Number: 11817
Submitted: 06/13/2008 09:05
Reported: 06/25/2008 at 13:52
Discard: 07/26/2008
ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	800.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	1,000.	ug/l	1
The LCS recovery for DRO is outside the QC limits. Due to insufficient sample volume, a reextraction could not be performed. The results are reported. Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.						
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	1.	0.5	ug/l	1
05401	Benzene	71-43-2	10.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/19/2008 22:55	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/18/2008 16:48	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/20/2008 16:09	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/18/2008 16:48	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/20/2008 16:09	Anita M Dale	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 2 of 2

Lancaster Laboratories Sample No. WW5389016

Group No. 1095974

MW-1 Grab Water Sample

Site# 1571 (256380)

200 S 36th St - Bellingham, WA

Collected: 06/11/2008 11:56 by TD

Account Number: 11817

Submitted: 06/13/2008 09:05

Reported: 06/25/2008 at 13:52

Discard: 07/26/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

36B01

02135 Extraction - DRO Water
Special

ECY 97-602 NWTPH-Dx
06/97

1 06/18/2008 03:00 Sherry L Morrow

1

Lancaster Laboratories Sample No. WW5389017
Group No. 1095974
MW-2 Grab Water Sample
Site# 1571 (256380)
200 S 36th St - Bellingham, WA
Collected: 06/11/2008 12:17 by TD
Account Number: 11817
Submitted: 06/13/2008 09:05
Reported: 06/25/2008 at 13:52
Discard: 07/26/2008
ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	95.	ug/l	1
	The LCS recovery for DRO is outside the QC limits. Due to insufficient sample volume, a reextraction could not be performed. The results are reported.					
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/19/2008 23:34	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/18/2008 17:21	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/20/2008 16:35	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/18/2008 17:21	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/20/2008 16:35	Anita M Dale	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	06/18/2008 03:00	Sherry L Morrow	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 2 of 2

Lancaster Laboratories Sample No. WW5389017

Group No. 1095974

MW-2 Grab Water Sample

Site# 1571 (256380)

200 S 36th St - Bellingham, WA

Collected: 06/11/2008 12:17 by TD

Account Number: 11817

Submitted: 06/13/2008 09:05

Reported: 06/25/2008 at 13:52

Discard: 07/26/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

36B02

Lancaster Laboratories Sample No. WW5389018
Group No. 1095974
MW-3 Grab Water Sample
Site# 1571 (256380)
200 S 36th St - Bellingham, WA
Collected: 06/11/2008 12:42 by TD
Account Number: 11817
Submitted: 06/13/2008 09:05
Reported: 06/25/2008 at 13:52
Discard: 07/26/2008
ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	100.	75.	ug/l	1
02096	Heavy Range Organics	n.a.	560.	94.	ug/l	1
	The LCS recovery for DRO is outside the QC limits. Due to insufficient sample volume, a reextraction could not be performed. The results are reported.					
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/20/2008 00:52	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/18/2008 18:27	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/20/2008 17:02	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/18/2008 18:27	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/20/2008 17:02	Anita M Dale	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	06/18/2008 03:00	Sherry L Morrow	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 2 of 2

Lancaster Laboratories Sample No. WW5389018

Group No. 1095974

MW-3 Grab Water Sample

Site# 1571 (256380)

200 S 36th St - Bellingham, WA

Collected: 06/11/2008 12:42 by TD

Account Number: 11817

Submitted: 06/13/2008 09:05

Reported: 06/25/2008 at 13:52

Discard: 07/26/2008

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B03

Lancaster Laboratories Sample No. WW5389019
Group No. 1095974
MW-4 Grab Water Sample
Site# 1571 (256380)
200 S 36th St - Bellingham, WA
Collected: 06/11/2008 13:11 by TD
Account Number: 11817
Submitted: 06/13/2008 09:05
Reported: 06/25/2008 at 13:52
Discard: 07/26/2008
ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	75.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	94.	ug/l	1
The LCS recovery for DRO is outside the QC limits. Due to insufficient sample volume, a reextraction could not be performed. The results are reported.						
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/19/2008	23:54	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/18/2008	19:00	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/20/2008	17:29	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/18/2008	19:00	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/20/2008	17:29	Anita M Dale	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	06/18/2008	03:00	Sherry L Morrow	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 2 of 2

Lancaster Laboratories Sample No. WW5389019

Group No. 1095974

MW-4 Grab Water Sample

Site# 1571 (256380)

200 S 36th St - Bellingham, WA

Collected: 06/11/2008 13:11 by TD

Account Number: 11817

Submitted: 06/13/2008 09:05

Reported: 06/25/2008 at 13:52

Discard: 07/26/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

36B04

Lancaster Laboratories Sample No. WW5389020
Group No. 1095974
MW-5 Grab Water Sample
Site# 1571 (256380)
200 S 36th St - Bellingham, WA
Collected: 06/11/2008 13:45 by TD
Account Number: 11817
Submitted: 06/13/2008 09:05
Reported: 06/25/2008 at 13:52
Discard: 07/26/2008
ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	91.	75.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	94.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/20/2008 04:47	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/18/2008 19:33	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/20/2008 17:56	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/18/2008 19:33	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/20/2008 17:56	Anita M Dale	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	06/19/2008 01:15	Roman Kuropatkin	1

Lancaster Laboratories Sample No. WW5389021
Group No. 1095974
MW-6 Grab Water Sample
Site# 1571 (256380)
200 S 36th St - Bellingham, WA
Collected: 06/11/2008 14:00 by TD
Account Number: 11817
Submitted: 06/13/2008 09:05
Reported: 06/25/2008 at 13:52
Discard: 07/26/2008
ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	N.D.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	250.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/20/2008	05:45	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/18/2008	20:07	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/20/2008	18:23	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/18/2008	20:07	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/20/2008	18:23	Anita M Dale	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx	1	06/19/2008	01:15	Roman Kuropatkin	1

Lancaster Laboratories Sample No. WW5389022
Group No. 1095974
MW-7 Grab Water Sample
Site# 1571 (256380)
200 S 36th St - Bellingham, WA
Collected: 06/11/2008 15:00 by TD
Account Number: 11817
Submitted: 06/13/2008 09:05
Reported: 06/25/2008 at 13:52
Discard: 07/26/2008
ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	1,300.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	860.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	240.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/20/2008 05:07	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/18/2008 20:40	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/20/2008 18:50	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/18/2008 20:40	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/20/2008 18:50	Anita M Dale	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx	1	06/19/2008 01:15	Roman Kuropatkin	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 2

Lancaster Laboratories Sample No. **WW5389023**

Group No. **1095974**

MW-8 Grab Water Sample

Site# 1571 (256380)

200 S 36th St - Bellingham, WA

Collected: 06/11/2008 14:30 by TD

Account Number: 11817

Submitted: 06/13/2008 09:05

Reported: 06/25/2008 at 13:52

Discard: 07/26/2008

ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210

36B08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	240.	76.	ug/l	1
02096	Heavy Range Organics	n.a.	1,000.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. 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 = 7.	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	0.7	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total) Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. 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.	1330-20-7	N.D.	0.5	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
---------	---------------	--------	--------	------------------------	---------	-----------------

Lancaster Laboratories Sample No. WW5389023

Group No. 1095974

MW-8 Grab Water Sample

Site# 1571 (256380)

200 S 36th St - Bellingham, WA

Collected: 06/11/2008 14:30 by TD

Account Number: 11817

Submitted: 06/13/2008 09:05

Reported: 06/25/2008 at 13:52

Discard: 07/26/2008

ConocoPhillips

5528 NW Doane Ave.

Portland OR 97210

36B08

02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/22/2008 14:36	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/18/2008 15:08	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/20/2008 19:16	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/18/2008 15:08	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/20/2008 19:16	Anita M Dale	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	06/19/2008 01:15	Roman Kuropatkin	1

Lancaster Laboratories Sample No. WW5389024
Group No. 1095974
**Trip Blank Water Sample
Site# 1571 (256380)
200 S 36th St - Bellingham, WA
Collected: 06/11/2008**
Account Number: 11817
**Submitted: 06/13/2008 09:05
Reported: 06/25/2008 at 13:52
Discard: 07/26/2008**
**ConocoPhillips
5528 NW Doane Ave.
Portland OR 97210**

36BTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1
02300	GC/MS Volatiles					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/18/2008	09:32	Patrick N Evans	1
02300	GC/MS Volatiles	SW-846 8260B	1	06/21/2008	10:30	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/18/2008	09:32	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/21/2008	10:30	Anita M Dale	1

Quality Control Summary

 Client Name: ConocoPhillips
 Reported: 06/25/08 at 01:52 PM

Group Number: 1095974

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 081690026A	Sample number(s): 5389016-5389019							
Diesel Range Organics	N.D.	80.	ug/l	60*		61-106		
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 081700015A	Sample number(s): 5389020-5389023							
Diesel Range Organics	N.D.	80.	ug/l	74	73	61-106	2	20
Heavy Range Organics	N.D.	100.	ug/l					
Batch number: 08170A51A	Sample number(s): 5389016-5389024							
TPH by NWTPH-Gx waters	N.D.	50.	ug/l	89	89	75-135	0	30
Batch number: P081722AA	Sample number(s): 5389016-5389023							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94	94	73-119	1	30
Benzene	N.D.	0.5	ug/l	93	98	78-119	5	30
Toluene	N.D.	0.5	ug/l	97	100	85-115	3	30
Ethylbenzene	N.D.	0.5	ug/l	91	95	82-119	4	30
Xylene (Total)	N.D.	0.5	ug/l	99	103	83-113	4	30
Batch number: P081732AA	Sample number(s): 5389024							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	90		73-119		
Benzene	N.D.	0.5	ug/l	91		78-119		
Toluene	N.D.	0.5	ug/l	92		85-115		
Ethylbenzene	N.D.	0.5	ug/l	89		82-119		
Xylene (Total)	N.D.	0.5	ug/l	96		83-113		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 081690026A	Sample number(s): 5389016-5389019 BKG: 5389016								
Diesel Range Organics						N.D.	N.D.	0 (1)	20
Heavy Range Organics						N.D.	N.D.	0 (1)	20
Batch number: 08170A51A	Sample number(s): 5389016-5389024 UNSPK: P388377								
TPH by NWTPH-Gx waters	85		63-154						
Batch number: P081722AA	Sample number(s): 5389016-5389023 UNSPK: P388184								
Methyl Tertiary Butyl Ether	94		69-127						
Benzene	100		83-128						
Toluene	101		83-127						
Ethylbenzene	99		82-129						
Xylene (Total)	106		82-130						

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: ConocoPhillips
 Reported: 06/25/08 at 01:52 PM

Group Number: 1095974

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: P081732AA	Sample number(s): 5389024 UNSPK: P389274								
Methyl Tertiary Butyl Ether	90	90	69-127	0	30				
Benzene	95	95	83-128	0	30				
Toluene	96	96	83-127	0	30				
Ethylbenzene	93	93	82-129	0	30				
Xylene (Total)	98	99	82-130	1	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

 Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
 Batch number: 081690026A
 Orthoterphenyl

5389016	77
5389017	75
5389018	84
5389019	79
Blank	86
DUP	73
LCS	90

Limits: 50-150

 Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
 Batch number: 081700015A
 Orthoterphenyl

5389020	93
5389021	92
5389022	115
5389023	104
Blank	89
LCS	108
LCSD	107

Limits: 50-150

 Analysis Name: TPH by NWTPH-Gx waters
 Batch number: 08170A51A
 Trifluorotoluene-F

5389016	109
5389017	111
5389018	109
5389019	111
5389020	101

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: ConocoPhillips
 Reported: 06/25/08 at 01:52 PM

Group Number: 1095974

Surrogate Quality Control

 5389021 111
 5389022 110
 5389023 109
 5389024 110
 Blank 111
 LCS 99
 LCSD 98
 MS 99

Limits: 63-135

 Analysis Name: GC/MS Volatiles
 Batch number: P081722AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5389016	105	92	96	87
5389017	105	96	94	86
5389018	106	95	96	87
5389019	106	96	94	85
5389020	104	93	96	86
5389021	105	95	95	86
5389022	105	95	94	91
5389023	104	94	96	87
Blank	104	93	95	86
LCS	102	97	95	91
LCSD	102	96	95	90
MS	104	96	95	91

Limits: 80-116 77-113 80-113 78-113

 Analysis Name: GC/MS Volatiles
 Batch number: P081732AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5389024	107	98	94	86
Blank	105	95	96	86
LCS	104	97	94	90
MS	104	98	95	89
MSD	105	96	94	89

Limits: 80-116 77-113 80-113 78-113

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is <CRDL, but ≥IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike amount not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
J Estimated value	U Compound was not detected
N Presumptive evidence of a compound (TICs only)	W Post digestion spike out of control limits
P Concentration difference between primary and confirmation columns >25%	* Duplicate analysis not within control limits
U Compound was not detected	+ Correlation coefficient for MSA <0.995
X,Y,Z Defined in case narrative	

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.