Station # 256380
VCP # NW1487

Release # 47125
Tosco #6380
Bellingham

DATE: January 23, 2007

UST # 8394

ConocoPhillips

GROUNDWATER MONITORING REPORT

Facility No.: 256380 Address: 200 South 36th Street, Bellingham, Washington
ConocoPhillips Site Manager: Michael Noll (RM&R 1571)
Consultant / Contact Person: SECOR International Inc. / Alice Larsen
Primary Agency/Regulatory ID No.: Washington State Department of Ecology / Site ID No. 8394
SECOR Project No: 01CP.01571.02

WORK PERFORMED THIS QUARTER(S) [3rd - 2006]:

- On September 21, 2006 SECOR personnel monitored, purged and sampled eight of the existing network of eight groundwater monitoring wells (MW-1 through MW-8). Groundwater monitoring wells MW-5 through MW-8 were installed on January 9, 2006.
- Groundwater samples were collected using a peristaltic pump, with dedicated polyethylene tubing in the well casing and a new section of silicon tubing in the pump head. Complete groundwater monitoring, purging, and sampling procedures are provided in Attachment B.
- Samples were submitted to Lancaster Laboratories for analysis of gasoline-range hydrocarbons (TPH-g) per Ecology Method NWTPH-Gx, diesel (TPH-d) and motor-oil (TPH-o) range hydrocarbons per Ecology Method NWTPH-Dx modified with an acid/silica gel cleanup, benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tert butyl ether (MTBE), per United States Environmental Protection Agency (USEPA) Method 8021. The laboratory analytical report is presented in Attachment A.

WORK PROPOSED FOR NEXT QUARTER [4th - 2006]:

- Measure depth to water, purge, and sample eight groundwater monitoring wells (MW-1 through MW-8). Submit groundwater samples for analysis for NWTPH-Gx, NWTPH-Dx, BTEX and MTBE.

DATA SUMMARY THIS QUARTER:

Frequency of Sampling Events:	Quarterly	(03/06,06/06,09/06,12/06)
Depth to Groundwater:	4.85 ft. (MW-5)	(Measured Feet Below
	8.42 ft. (MW-8)	Top of Well Casing)
Groundwater Gradient:	Southeast	(Apparent Flow Direction)
	0.1 feet per foot.	(Approximate Magnitude)
Maximum TPH-G Concentrations:	150 µg/L (MW-7)	(ppb / well ID)
Maximum TPH-D Concentrations:	1,300 µg/L (MW-7)	(ppb / well ID)
Maximum TPH-O Concentrations:	160 µg/L (MW-7)	(ppb / well ID)
Maximum Benzene Concentration:	None Detected	(ppb / well ID)
Maximum Dissolved Lead Concentration:	None Detected	(ppb / well ID)
Measurable Free Product Detected:	No	(Yes - ID well(s)/No)
Free Product Recovered This Quarter:	None	(Gallons)
Cumulative Free Product Recovered to Date:	None	(Gallons)
Water Wells or	i.) One Water Well	(Type)
Surface Waters w/in 2,000 ft:	ii.) Connelly Creek	
Radius and Respective	i.) 1600 ft. West	(Respective Distance
Direction From Site:	ii.) 1000 ft. Southwest	& Direction)
Current Remedial Action:	NA	(SVE/AS/P&T/NA etc.)
Permits for Discharge:	None	(NPDES, POTW, etc.)

DISCUSSION:

- The groundwater samples were received by Lancaster Laboratories on September 22, 2006. Based on a review of the laboratory reports, it appears that the submitted water samples were analyzed within the specified holding times and that Lancaster followed their appropriate quality assurance/quality control (QA/QC) procedures during analysis.

- TPH-d was detected at concentrations greater than the Model Toxics Control Act Method A Cleanup Levels for groundwater (MTCA A) in the groundwater sample collected from MW-7 at 1,300 micrograms per liter (µg/L). TPH-d was detected at concentrations less than MTCA A but greater than the laboratory reporting limits (RLs) in the groundwater sample collected from MW-4 at 270 µg/L. TPH-d was not detected at concentrations greater than the RLs in any of the remaining samples collected this quarter.

- TPH-o was detected at concentrations greater than the RLs in the groundwater sample collected from MW-7 at 160 µg/L. TPH-o was not detected at concentrations greater than the RLs in any of the remaining samples collected this quarter.

- TPH-g was detected at concentrations greater than the RLs in the groundwater sample collected from MW-7 at 150 µg/L. TPH-g was not detected at concentrations greater than the RLs in any of the remaining samples collected this quarter.

- BTEX constituents were not detected at concentrations greater than the RLs in any of the groundwater samples collected this quarter.

- MTBE was detected at concentrations greater than the RLs but less than MTCA A in the groundwater samples collected from MW-4 and MW-7 at 0.8 µg/L and 1 µg/L, respectively. None of the remaining samples collected this quarter contained MTBE concentrations greater than the RLs.

- No drums were left on site.

ATTACHMENTS:

Figure 1: Site Location Map
Figure 2: Site Plan with Groundwater Elevations (9/21/06)
Figure 3: Site Plan with Groundwater Analytical Results (12/15/05 – 9/21/06)
Table 1: Summary of Cumulative Groundwater Elevations and Sample Analytical Results
Attachment A: Laboratory Analytical Report and Chain of Custody Record
Attachment B: SECOR Monitoring Well Gauging, Purging and Sampling Procedures; Groundwater Monitoring Field Data Records

Prepared By:

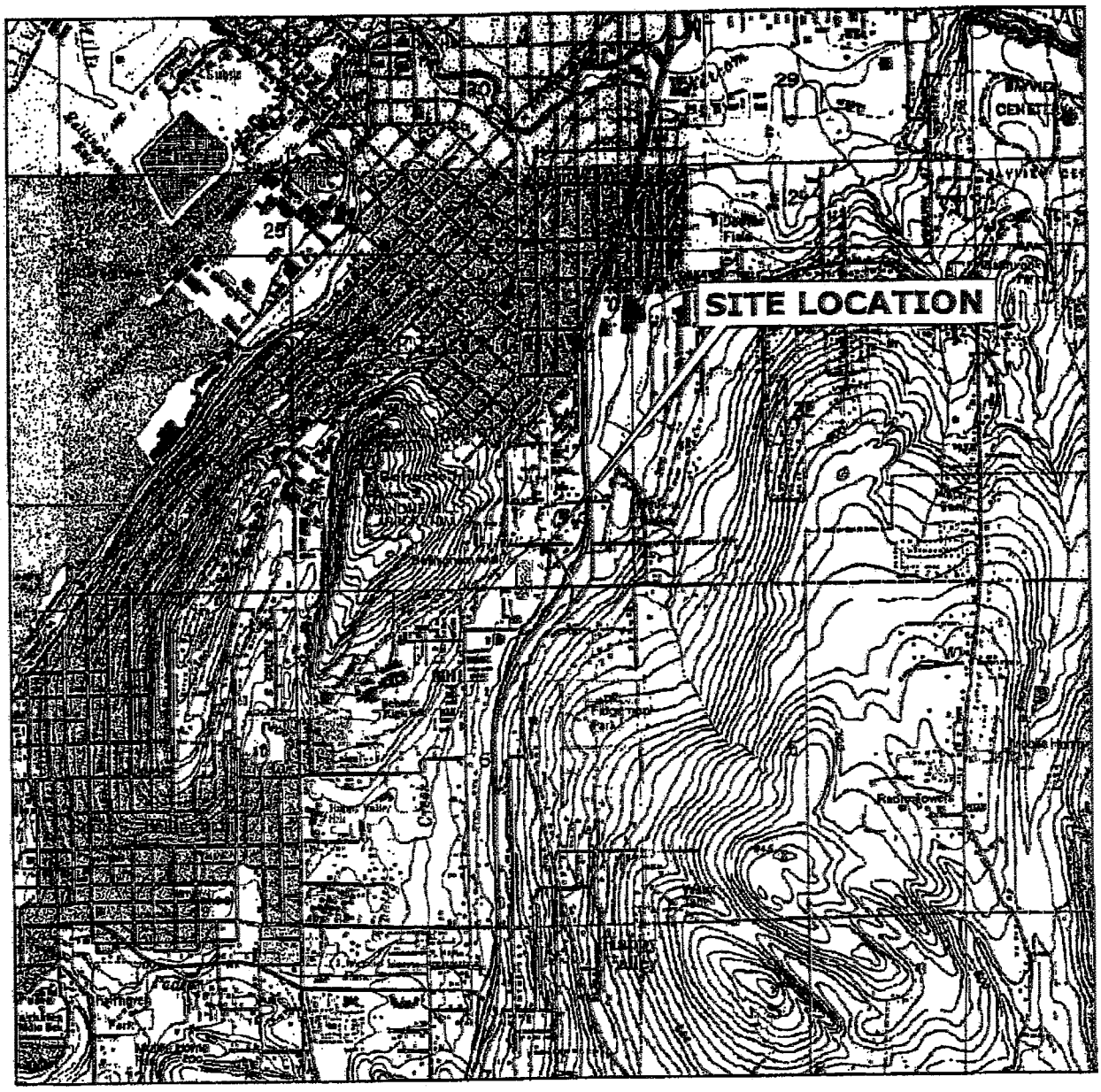
Jmmy Parise for
Meredith Redmon
Project Scientist

Reviewed By:

Marc Sauzé, P.E.
Senior Project Engineer

cc: LUST Coordinator, Washington State Department of Ecology, Northwest Regional Office
Mr. Frank Diehl, Keith Oil Corporation
Mark Adams, Washington State Department of Ecology, Northwest Regional Office

FIGURES



North

MAP LOCATION

WASHINGTON

1 1/2 0 1

SCALE (MILES)

1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE (FEET)

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

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REDMOND, WASHINGTON
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PREPARED FOR:
ConocoPhillips
FACILITY NO 256380
200 SOUTH 36th STREET
BELLINGHAM, WASHINGTON

SITE LOCATION MAP

FIGURE: 1

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
01CP.06380.11	S. SIMMONS			1/31/08

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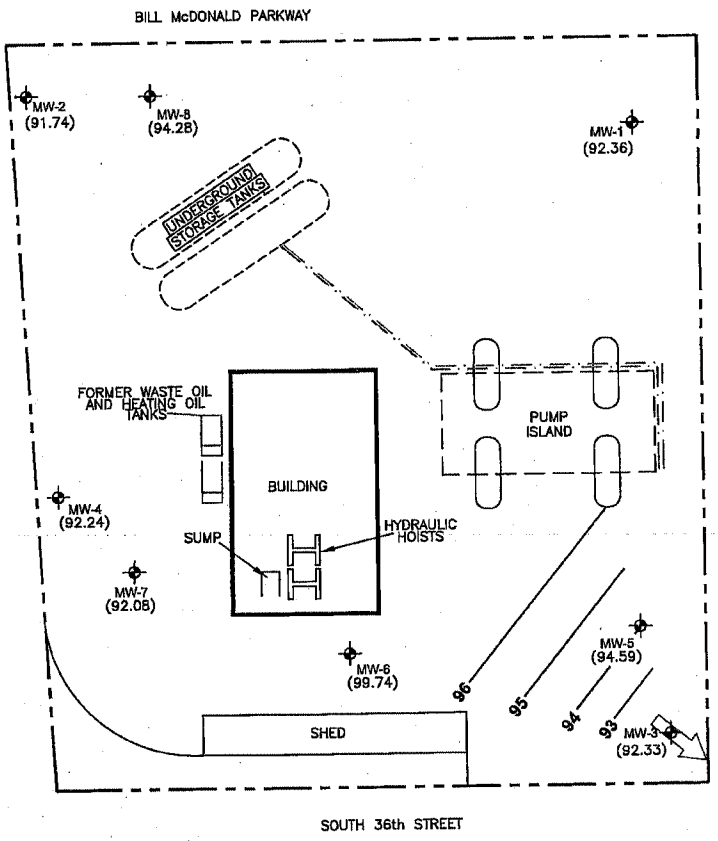

LEGEND

- SITE BOUNDARY
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR
- (92.67) GROUNDWATER ELEVATION
- APPARENT GROUNDWATER FLOW DIRECTION

North

0 30 60

APPROXIMATE SCALE (FEET)

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

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BELLINGHAM, WASHINGTON

SITE PLAN WITH GROUNDWATER ELEVATIONS (9/21/06)

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
01CP.06380.11	CFS			12/11/06

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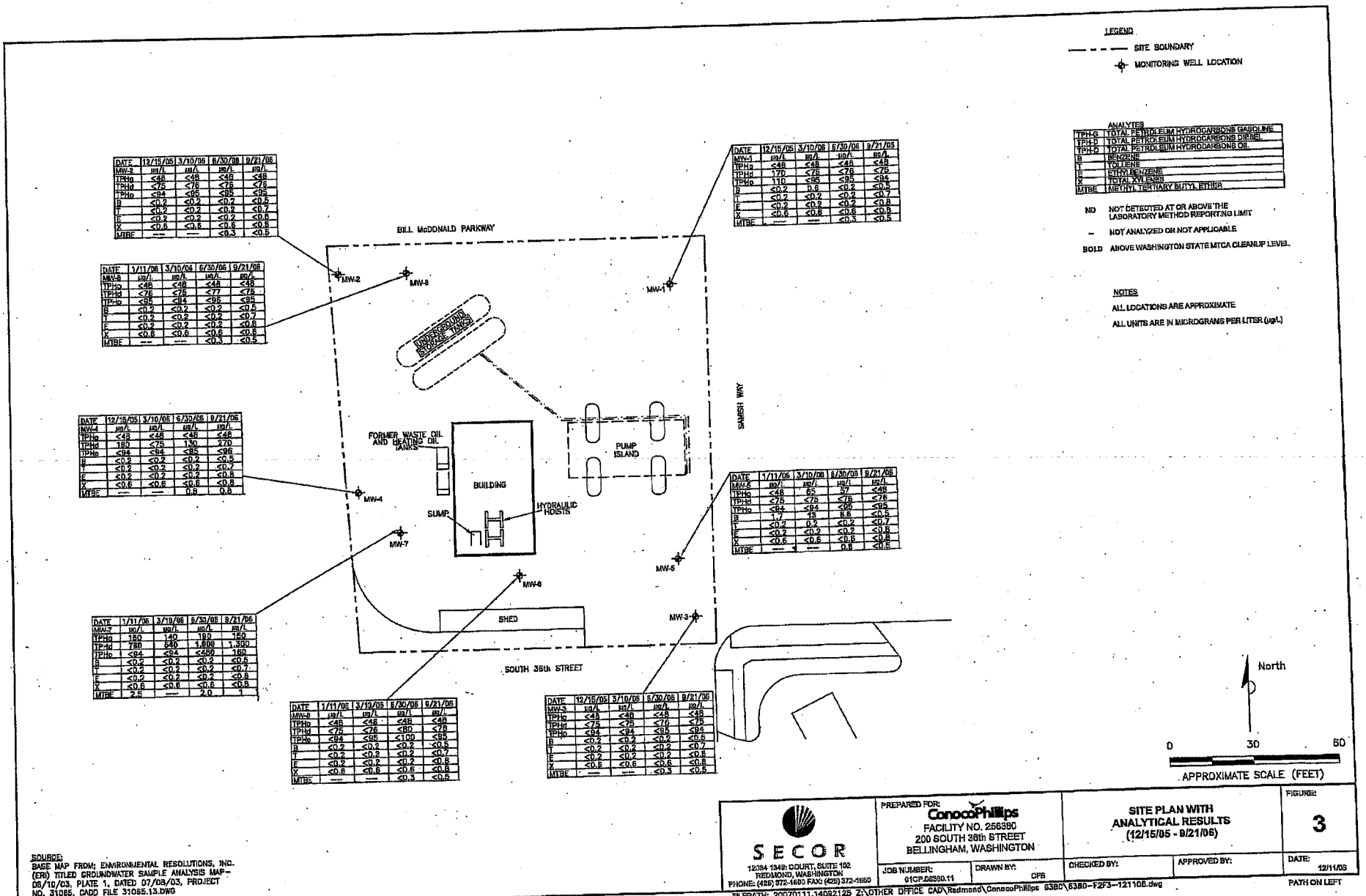

DATE	12/15/05	3/10/06	6/30/06	9/21/06
MW-2	µg/L	µg/L	µg/L	µg/L
TPHg	<48	<48	<48	<48
TPHd	<75	<76	<76	<76
TPHo	<94	<95	<95	<95
B	<0.2	<0.2	<0.2	<0.5
T	<0.2	<0.2	<0.2	<0.7
E	<0.2	<0.2	<0.2	<0.6
X	<0.6	<0.6	<0.6	<0.8
MTBE	—	—	<0.3	<0.5

DATE	1/11/06	3/10/06	6/30/06	9/21/06
MW-9	µg/L	µg/L	µg/L	µg/L
TPHg	<48	<48	<48	<48
TPHd	<75	<75	<77	<76
TPHo	<95	<94	<96	<95
B	<0.2	<0.2	<0.2	<0.5
T	<0.2	<0.2	<0.2	<0.7
E	<0.2	<0.2	<0.2	<0.6
X	<0.6	<0.6	<0.6	<0.6
MTBE	—	—	<0.3	<0.5

DATE	12/15/05	3/10/06	6/30/06	9/21/06
MW-1	µg/L	µg/L	µg/L	µg/L
TPHg	<48	<48	<48	<48
TPHd	170	<75	<76	<76
TPHo	110	<95	<95	<94
B	<0.2	0.6	<0.2	<0.5
T	<0.2	<0.2	<0.2	<0.7
E	<0.2	<0.2	<0.2	<0.6
X	<0.6	<0.6	<0.6	<0.8
MTBE	—	—	<0.3	<0.5

DATE	12/15/05	3/10/06	6/30/06	9/21/06
MW-4	µg/L	µg/L	µg/L	µg/L
TPHg	<48	<48	<48	<48
TPHd	180	<75	130	270
TPHo	<94	<94	<95	<96
B	<0.2	<0.2	<0.2	<0.5
T	<0.2	<0.2	<0.2	<0.7
E	<0.2	<0.2	<0.2	<0.6
X	<0.6	<0.6	<0.6	<0.8
MTBE	—	—	0.8	0.8

DATE	1/11/06	3/10/06	6/30/06	9/21/06
MW-5	µg/L	µg/L	µg/L	µg/L
TPHg	<48	65	57	<48
TPHd	<75	<75	<76	<76
TPHo	<94	<94	<95	<95
B	1.7	13	8.6	<0.5
T	<0.2	0.2	<0.2	<0.7
E	<0.2	<0.2	<0.2	<0.6
X	<0.6	<0.6	<0.6	<0.8
MTBE	—	—	0.8	<0.5

DATE	1/11/06	3/10/06	6/30/06	9/21/06
MW-7	µg/L	µg/L	µg/L	µg/L
TPHg	150	140	180	150
TPHd	780	540	1,800	1,300
TPHo	<94	<94	<480	160
B	<0.2	<0.2	<0.2	<0.5
T	<0.2	<0.2	<0.2	<0.7
E	<0.2	<0.2	<0.2	<0.6
X	<0.6	<0.6	<0.6	<0.6
MTBE	2.5	—	2.0	1

DATE	1/11/06	3/10/06	6/30/06	9/21/06
MW-8	µg/L	µg/L	µg/L	µg/L
TPHg	<48	<48	<48	<48
TPHd	<75	<76	<80	<75
TPHo	<94	<95	<100	<95
B	<0.2	<0.2	<0.2	<0.5
T	<0.2	<0.2	<0.2	<0.7
E	<0.2	<0.2	<0.2	<0.6
X	<0.6	<0.6	<0.6	<0.6
MTBE	—	—	<0.3	<0.5

DATE	12/15/05	3/10/06	6/30/06	9/21/06
MW-3	µg/L	µg/L	µg/L	µg/L
TPHg	<48	<48	<48	<48
TPHd	<75	<75	<76	<76
TPHo	<94	<94	<95	<94
B	<0.2	<0.2	<0.2	<0.5
T	<0.2	<0.2	<0.2	<0.7
E	<0.2	<0.2	<0.2	<0.6
X	<0.6	<0.6	<0.6	<0.8
MTBE	—	—	<0.3	<0.5

SOURCE:
BASE MAP FROM: ENVIRONMENTAL RESOLUTIONS, INC. (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP– 08/10/03, PLATE 1, DATED 07/08/03, PROJECT NO. 31085. CADD FILE 31085.13.DWG

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200 SOUTH 36th STREET
BELLINGHAM, WASHINGTON

SITE PLAN WITH ANALYTICAL RESULTS (12/15/05 - 9/21/06)

FIGURE: 3

JOB NUMBER: 01CP.06380.11
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APPROVED BY:
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TABLES

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

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	MTBE	Total Pb	Diss Pb
MW1	12/15/05	5.94	92.55	<48	170	110	<0.2	<0.2	<0.2	<0.6	--	--	--
TOC Elevation	03/10/06	5.82	92.67	<48	<76	<95	0.6	<0.2	<0.2	<0.6	--	--	--
98.49	06/30/06	8.88	89.61	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	1.3	--	--
	09/21/06	6.13	92.36	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	--
MW2	12/15/2005	8.44	92.30	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
TOC Elevation	3/10/2006	8.28	92.46	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--
100.74	6/30/2006	8.71	92.03	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--
	9/21/2006	9.00	91.74	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	--
MW3	12/15/2005	5.09	92.75	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
TOC Elevation	3/10/2006	4.75	93.09	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
97.84	6/30/2006	5.40	92.44	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	--	--
	9/21/2006	5.51	92.33	<48	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	--
MW4	12/15/2005	6.73	92.71	<48	180	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
TOC Elevation	3/10/2006	6.28	93.16	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
99.44	6/30/2006	6.80	92.64	<48	130	<95	<0.2	<0.2	<0.2	<0.6	0.8	--	--
	9/21/2006	7.20	92.24	<48	270	<96	<0.5	<0.7	<0.8	<0.8	0.8	<6.9	--
MW-5	1/11/2006	4.04	NE	<48	<75	<94	1.7	<0.2	<0.2	<0.6	--	<8.4	--
TOC Elevation	3/10/2006	3.81	95.63	65	<75	<94	13	0.2	<0.2	<0.6	--	--	--
101.14	6/30/2006	4.46	94.98	57	<76	<95	8.6	<0.2	<0.2	<0.6	<5.0	--	--
	9/21/2006	4.85	94.59	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	--
MW-6	1/11/2006	4.89	NE	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	<8.4	--
TOC Elevation	3/10/2006	5.47	94.27	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	--	--
99.74	6/30/2006	6.50	93.24	<48	<80	<100	<0.2	<0.2	<0.2	<0.6	<0.3	--	--
	9/21/2006	6.39	99.74	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	--
MW-7	1/11/2006	6.07	NE	160	780[b]	<94[b]	<0.2	<0.2	<0.2	<0.6	2.5	<8.4	--
TOC Elevation	3/10/2006	6.71	92.93	140	540	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
99.64	6/30/2006	7.31	92.33	190	1,000	<480	0.2	<0.2	<0.2	<0.6	2.0	--	--
	9/21/2006	7.56	92.08	150	1,300	160	<0.5	<0.7	<0.8	<0.8	1	<6.9	--
MW-8	1/11/2006	7.00	NE	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	--	<8.4	--
TOC Elevation	3/10/2006	7.50	95.20	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	--	--	--
102.7	6/30/2006	7.97	94.73	<48	<77	<96	<0.2	<0.2	<0.2	<0.6	<0.3	--	--
	9/21/2006	8.42	94.28	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<6.9	--
MTCA Method A Cleanup Levels				1000/800[a]	500	500	5	1000	700	1000	20	15	15

EXPLANATION:
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 then 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 fro a reextraction the data is reported. The observed sample pattern includes #2 fuel/diesel and individual peaks eluting in the diesel organic range (DRO)

ATTACHMENT A
LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY RECORD

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1006868. Samples arrived at the laboratory on Friday, September 22, 2006. The PO# for this group is 4506583796 and the release number is TROTTER.

Client Description	Lancaster Labs Number
MW-8 Grab Water Sample	4872384
MW-2 Grab Water Sample	4872385
MW-4 Grab Water Sample	4872386
MW-7 Grab Water Sample	4872387
MW-6 Grab Water Sample	4872388
MW-5 Grab Water Sample	4872389
Trip Blank Water Sample	4872390
MW-3 Grab Water Sample	4872391
MW-1 Grab Water Sample	4872392
Trip Blank Water Sample	4872393

ELECTRONIC COPY TO	SECOR International	Attn: Marc Sauze
1 COPY TO	SECOR International	Attn: Meredith Redmon

Lancaster Laboratories

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

Analysis Report

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,

Max E. Snavely
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4872392

MW-1 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 14:09 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36B01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
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
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
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.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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
07055	Lead	SW-846 6010B	1	09/29/2006 17:20	John P Hook	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	09/28/2006 19:21	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/29/2006 09:26	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 21:46	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/29/2006 09:26	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 21:46	Anita M Dale	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872392

MW-1 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 14:09 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36B01

01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2006 09:25	Megersa Deyessa	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	09/27/2006 18:45	Elaine F Stoltzfus	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872385

MW-2 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 10:35 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36B02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
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
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
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.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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
07055	Lead	SW-846 6010B	1	09/29/2006 21:51	John P Hook	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	09/29/2006 04:20	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/28/2006 20:10	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 07:08	Sara E Wolf	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/28/2006 20:10	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 07:08	Sara E Wolf	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872385

MW-2 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected: 09/21/2006 10:35 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

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36B02

01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2006 00:15	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	09/27/2006 08:00	Tracy L Schickel	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872391

MW-3 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected: 09/21/2006 13:27 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
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Tempe AZ 85281

36B03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
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
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
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.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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 Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	09/29/2006 12:21	Joanne M Gates	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	09/28/2006 18:42	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/29/2006 20:59	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 21:20	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/29/2006 20:59	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 21:20	Anita M Dale	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872391

MW-3 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected: 09/21/2006 13:27 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

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36B03

01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2006 00:45	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	09/27/2006 18:45	Elaine F Stoltzfus	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872386

MW-4 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 11:14 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36B04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
02211	TPH by NWTPH-Dx(water) w/SiGel					
02095	Diesel Range Organics	n.a.	270.	77.	ug/l	1
02096	Heavy Range Organics	n.a.	N.D.	96.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	0.8	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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
07055	Lead	SW-846 6010B	1	09/29/2006 21:56	John P Hook	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	09/29/2006 04:39	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/28/2006 20:43	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 07:34	Sara E Wolf	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/28/2006 20:43	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 07:34	Sara E Wolf	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872386

MW-4 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 11:14 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

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Tempe AZ 85281

36B04

01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2006 00:15	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	09/27/2006 08:00	Tracy L Schickel	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872389

MW-5 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 12:52 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

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36B05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
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
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
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.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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 Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	09/29/2006 22:10	John P Hook	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	09/28/2006 18:23	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/28/2006 22:21	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 20:26	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/28/2006 22:21	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 20:26	Anita M Dale	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872389

MW-5 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 12:52 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

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Tempe AZ 85281

36B05

01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2006 00:15	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	09/27/2006 18:45	Elaine F Stoltzfus	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872388

MW-6 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 12:18 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
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Tempe AZ 85281

36B06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
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
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
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.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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
07055	Lead	SW-846 6010B	1	09/29/2006 22:05	John P Hook	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	09/28/2006 18:04	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/28/2006 21:48	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 08:15	Sara E Wolf	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/28/2006 21:48	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 08:15	Sara E Wolf	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872388

MW-6 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 12:18 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36B06

01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2006 00:15	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	09/27/2006 18:45	Elaine F Stoltzfus	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872387

MW-7 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 11:45 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36B07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
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.	160.	95.	ug/l	1
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	150.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	1.	0.5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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
07055	Lead	SW-846 6010B	1	09/29/2006 22:01	John P Hook	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	09/28/2006 17:45	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/28/2006 21:15	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 08:01	Sara E Wolf	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/28/2006 21:15	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 08:01	Sara E Wolf	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872387

MW-7 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 11:45 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36B07

01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2006 00:15	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	09/27/2006 18:45	Elaine F Stoltzfus	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872384

MW-8 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 09:59 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36B08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	6.9	ug/l	1
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
08273	TPH by NWTPH-Gx waters					
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
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.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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 Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	09/29/2006 21:46	John P Hook	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	09/29/2006 04:00	Matthew E Barton	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/28/2006 19:38	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 06:41	Sara E Wolf	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/28/2006 19:38	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 06:41	Sara E Wolf	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4872384

MW-8 Grab Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006 09:59 by TP

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36B08

01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2006 00:15	Helen L Schaeffer	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	09/27/2006 08:00	Tracy L Schickel	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4872390

Trip Blank Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

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.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
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.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	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
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/28/2006 12:00	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 20:53	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/28/2006 12:00	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 20:53	Anita M Dale	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4872393

Trip Blank Water Sample
Site# 1571 (2556380)
200 S 36th St-Bellingham, WA
Collected:09/21/2006

Account Number: 11817

Submitted: 09/22/2006 09:40
Reported: 10/20/2006 at 19:11
Discard: 11/20/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

36BT2

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.	48.	ug/l	1
02300	UST-Unleaded Waters by 8260B					
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.	0.7	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	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
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	09/29/2006 09:59	Steven A Skiles	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2006 22:13	Anita M Dale	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/29/2006 09:59	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2006 22:13	Anita M Dale	1

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Analysis Report

Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/20/06 at 07:11 PM

Group Number: 1006868

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

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 062690015A	Sample number(s): 4872384-4872386							
Diesel Range Organics	N.D.	0.080	mg/l	90	90	51-113	0	20
Heavy Range Organics	N.D.	0.10	mg/l					
Batch number: 062690016A	Sample number(s): 4872387-4872389,4872391-4872392							
Diesel Range Organics	N.D.	0.080	mg/l	83	83	51-113	0	20
Heavy Range Organics	N.D.	0.10	mg/l					
Batch number: 06271A07A	Sample number(s): 4872384-4872390							
TPH by NWTPH-Gx waters	N.D.	48.	ug/l	91	88	70-130	3	30
Batch number: 062721848001	Sample number(s): 4872384-4872389							
Lead	N.D.	0.0069	mg/l	103		90-113		
Batch number: 062721848002	Sample number(s): 4872391							
Lead	N.D.	0.0069	mg/l	103		90-113		
Batch number: 062721848005	Sample number(s): 4872392							
Lead	N.D.	0.0069	mg/l	103		90-113		
Batch number: 06272A07A	Sample number(s): 4872391-4872393							
TPH by NWTPH-Gx waters	N.D.	48.	ug/l	85	88	70-130	4	30
Batch number: P062723AA	Sample number(s): 4872388							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94	92	73-119	2	30
Benzene	N.D.	0.5	ug/l	96	96	85-117	0	30
Toluene	N.D.	0.7	ug/l	93	92	85-115	1	30
Ethylbenzene	N.D.	0.8	ug/l	94	93	82-119	1	30
Xylene (Total)	N.D.	0.8	ug/l	95	95	83-113	0	30
Batch number: P062724AA	Sample number(s): 4872384-4872387							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	93		73-119		
Benzene	N.D.	0.5	ug/l	98		85-117		
Toluene	N.D.	0.7	ug/l	98		85-115		
Ethylbenzene	N.D.	0.8	ug/l	97		82-119		
Xylene (Total)	N.D.	0.8	ug/l	98		83-113		
Batch number: P062731AA	Sample number(s): 4872389-4872393							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	98	94	73-119	3	30
Benzene	N.D.	0.5	ug/l	99	95	85-117	4	30
Toluene	N.D.	0.7	ug/l	94	91	85-115	3	30
Ethylbenzene	N.D.	0.8	ug/l	96	92	82-119	4	30
Xylene (Total)	N.D.	0.8	ug/l	96	92	83-113	4	30

Sample Matrix Quality Control

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

Quality Control Summary

Client Name: ConocoPhillips Group Number: 1006868
Reported: 10/20/06 at 07:11 PM
Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06271A07A	Sample number(s): 4872384-4872390 UNSPK: P872071								
TPH by NWTPH-Gx waters	93		63-154						
Batch number: 062721848001	Sample number(s): 4872384-4872389 UNSPK: P874196 BKG: P874196								
Lead	105	103	75-125	2	20	N.D.	N.D.	40* (1)	20
Batch number: 062721848002	Sample number(s): 4872391 UNSPK: P874210 BKG: P874210								
Lead	103	104	75-125	1	20	N.D.	N.D.	114* (1)	20
Batch number: 062721848005	Sample number(s): 4872392 UNSPK: P873457 BKG: P873457								
Lead	104	105	75-125	1	20	N.D.	N.D.	-218 (1)	20
Batch number: 06272A07A	Sample number(s): 4872391-4872393 UNSPK: P874787								
TPH by NWTPH-Gx waters	91		63-154						
Batch number: P062723AA	Sample number(s): 4872388 UNSPK: P870642								
Methyl Tertiary Butyl Ether	76		69-127						
Benzene	83		83-128						
Toluene	78*		83-127						
Ethylbenzene	80*		82-129						
Xylene (Total)	80*		82-130						
Batch number: P062724AA	Sample number(s): 4872384-4872387 UNSPK: P874787								
Methyl Tertiary Butyl Ether	94	91	69-127	4	30				
Benzene	103	101	83-128	2	30				
Toluene	101	99	83-127	2	30				
Ethylbenzene	100	99	82-129	1	30				
Xylene (Total)	100	98	82-130	2	30				
Batch number: P062731AA	Sample number(s): 4872389-4872393 UNSPK: P872933								
Methyl Tertiary Butyl Ether	99		69-127						
Benzene	104		83-128						
Toluene	98		83-127						
Ethylbenzene	99		82-129						
Xylene (Total)	100		82-130						

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: 062690015A

	Orthoterphenyl
4872384	103
4872385	108
4872386	108
Blank	102
LCS	118
LCSD	118

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

Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/20/06 at 07:11 PM

Group Number: 1006868

Surrogate Quality Control

Limits:	50-150

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 062690016A

	Orthoterphenyl
4872387	107
4872388	92
4872389	94
4872391	99
4872392	94
Blank	69
LCS	114
LCSD	113
Limits:	50-150

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 06271A07A

	Trifluorotoluene-F
4872384	94
4872385	94
4872386	96
4872387	94
4872388	96
4872389	94
4872390	93
Blank	97
LCS	104
LCSD	100
MS	105
Limits:	63-135

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 06272A07A

	Trifluorotoluene-F
4872391	96
4872392	95
4872393	95
Blank	94
LCS	99
LCSD	100
MS	100
Limits:	63-135

Analysis Name: UST-Unleaded Waters by 8260B
Batch number: P062723AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4872388	83	81	82	83
Blank	82	80	82	84
LCS	82	81	83	85
LCSD	83	80	81	85

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

Quality Control Summary

Client Name: ConocoPhillips Group Number: 1006868
Reported: 10/20/06 at 07:11 PM

Surrogate Quality Control

MS	83	80	81	87
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST-Unleaded Waters by 8260B
Batch number: P062724AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4872384	94	90	93	90
4872385	93	88	92	90
4872386	93	88	93	91
4872387	93	88	92	90
Blank	93	88	92	90
LCS	93	89	92	91
MS	94	90	93	92
MSD	93	89	92	91
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST-Unleaded Waters by 8260B
Batch number: P062731AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4872389	83	80	83	85
4872390	84	81	81	83
4872391	84	81	82	84
4872392	83	80	82	84
4872393	83	81	82	84
Blank	83	81	81	83
LCS	84	80	81	86
LCSD	83	81	83	85
MS	84	81	81	85
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 background result was more than four times the spike added.

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories

04413

Acct. #: 11817 For Lancaster Laboratories use only Group # 1006808 Sample #: 4872384-93

SCR#: 32370

Site #: 256380 WNO #:

Site Address: Bellingham, WA

ConocoPhillips PM: Jim Trotter Company Code: SEC

Core Work Order#: Total Lab Budget:

Consultant/Office: Redmond, WA

Consultant Prj. Mgr: Marc Sauze 372-

Consultant Phone #: 425-372-1600 Fax #: 1650

Sampler: Tammy Parise

Analyses Requested — List total number of containers in the box under each analysis.

Preservation Codes: H, H, H

Analyses: TPH g; TPH d w/silica gel cleanup; BTEX/MTBE 8260B; Lead

Matrix: Soil; Water (Potable / NPDES); Oil / Air

Preservative Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, O = Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil/Air	TPH g	TPH d w/silica gel cleanup	BTEX/MTBE 8260B	Lead	Remarks
MW-8	9/21/06	9:59	✓			✓		✓	✓	✓	✓	
MW-2	✓	10:35	✓			✓		✓	✓	✓	✓	
MW-4	✓	11:14	✓			✓		✓	✓	✓	✓	
MW-7	✓	11:45	✓			✓		✓	✓	✓	✓	
MW-6	✓	12:18	✓			✓		✓	✓	✓	✓	
MW-5	✓	12:52	✓			✓		✓	✓	✓	✓	
Trip blanks	✓		✓			✓		✓				

Turnaround Time Requested in Business Days (TAT) (please circle): **STD. TAT** (circled) 5 day 48 hour 24 hour other ______

Reporting Requirements (please circle): NJ Reduced, NY ASP Cat. A, Raw Data, Diskette, NY ASP Cat. B, Full Type I, Other ______

Relinquished by:	Date	Time	Received by:	Date	Time
K. Gunter	9-8-06	0910			
Tammy Parise	9/21/06	3:00			
			[signature]	9/22/06	0940

Relinquished by Commercial Carrier: UPS ____ FedEx ✓ Other ____

Temperature Upon Receipt 3.5; 4.1 C°

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4531.01

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories

04412

Acct. #: 11817 For Lancaster Laboratories use only Group # 1006808 Sample #: 4872384-93

SCR#:

Site #: 256380 WNO #:

Site Address: Bellingham, WA

ConocoPhillips PM: Tim Trotter Company Code: SEC

Core Work Order#: Total Lab Budget

Consultant/Office: Redmond, WA

Consultant Prj. Mgr: Marc Sauze

Consultant Phone #: 425 372-1600 Fax #: 425 372-1650

Sampler: Tammy Parke

Matrix: Potable ☐ NPDES ☐ Soil ☐ Water ☐ Oil ☐ Air ☐

Analyses Requested — List total number of containers in the box under each analysis. Preservation Codes

Sample Identification	Date Collected	Time Collected	Grab	Composite	TPH-D	TPH-G w/silica gel cleanup	BTEX MTBE 8260B	Lead	Remarks
MW-3	9/21/06	1:27			1	1	1	1	
MW-1		2:09			1	1	1	1	
Trip blanks					1	1	1		

Preservative Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, O = Other

Turnaround Time Requested in Business Days (TAT) (please circle):

STD. TAT 5 day 48 hour

24 hour other

Reporting Requirements (please circle)

NJ Reduced NY ASP Cat. A Raw Data Diskette

NY ASP Cat. B Full Type I Other

	Date	Time		Date	Time
Relinquished by: Tammy Parke	9/21/06	3:00	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:	9/22/06	0040

Relinquished by Commercial Carrier: UPS FedEx ✓ Other

Temperature Upon Receipt 3.5°, 4.1° C

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4531.01

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 limit of quantitation, 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

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

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.

ATTACHMENT B
SECOR MONITORING WELL GAUGING, PURGING AND SAMPLING PROCEDURES
GROUNDWATER MONITORING FIELD DATA RECORDS

SECOR 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.

SECOR

DAILY FIELD LOG

Page: 1 of 1
Date: 9/20/06

Client: ConocoPhillips	Site No: 256380	Project No: 01CP.01571.02

Scope of Work: x Quarter Monitoring/Sampling

Describe Daily Activities:

Gauged 8 monitoring wells.
Purged 8 monitoring wells.
Sampled 8 monitoring wells.

Number of drums left on site: 0

Field Notes:

8:40 arrived on site, apply PPE, go over HASP, meet w/ store employee
Set up decon + begin gauging @ 9:00
9:59 sampled MW-8
10:35 sampled MW-2
11:14 sampled MW-4
11:45 sampled MW-7
12:18 sampled MW-6
12:52 sampled MW-5
1:27 sampled MW 3
2:09 sampled MW-1
packed up samples after purchasing more ice
Decon equipment, pack up, depart

Arrived on Site: 8:40 Departed Site: 3:00

Decontamination Procedures: 3-Stage (Alconox Wash, Tap Water Rinse, & Distilled Water Rinse)

Daily Health and Safety Log Completed?: yes Utility Locations Checked?: N/A

Important Conversations:: NO

Important Changes in Scope of Work: NO

Weather Conditions: Cloudy 55/60 Subcontractors On Site: NO

SECOR Personnel On Site: Tammy Parise

Signed: Tammy Parise Date: 9/21/06

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 9/21/06 WELL NO. MW- 1

FACILITY NAME: 256380 TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Cloudy

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 6.13 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water _____ =	_____ PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water _____ =	_____ PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water _____ =	_____ PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 1:54 END: 2:25

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct.	SWL
1st Volume:	1:59	L	C	6	8.16	19.76	.607	6.20
2nd Volume:	2:02	"	"	-118	7.88	19.20	.565	6.31
3rd Volume:	2:05	"	"	-124	7.70	19.60	.579	6.39
4th Volume:	2:08	V	V	-107	7.56	19.72	.577	6.40
Addl. Volumes:								

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 6.40

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW- 1	2:09	6 VOAS/ 1 amber	HCL
		500 ml round plastic	none

COMMENTS:

Added DOE-tag ALS 992
I took an additional reading to stabilize sample.
Replaced rusted bolts

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = --( )
Collect sample when Depth to Water measures
Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 9/21/06 WELL NO. MW-2

FACILITY NAME: 256380 TEMPERATURE: 55 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: cloudy

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 9.0 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water _____ =	_____ PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water _____ =	_____ PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water _____ =	_____ PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 10:23 END: 10:52

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct.	SWL
1st Volume:	10:28	L	C	-1	7.37	16.01	.555	9.06
2nd Volume:	10:31	↓	↓	9	7.49	15.89	.570	9.06
3rd Volume:	10:34	↓	↓	13	7.29	15.94	.567	9.06
4th Volume:								
Addl. Volumes:								

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 9.06

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-2	10:35	6 VOAS/ 1 amber	HCL
		500 ml round plastic	none

COMMENTS:

Added DOE tag ALS 989

Replaced all 3 bolts

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:

Original Water Column: _____ x 0.80 = _____

Collect sample when Depth to Water measures

Less than or equal to:

SECOR

GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 9/21/06 WELL NO. MW-3

FACILITY NAME: 256380 TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Cloudy

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 5.51 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water _____ =	_____ PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water _____ =	_____ PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water _____ =	_____ PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 1:15 END: 1:44

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct.	SWL
1st Volume:	1:20	L	C	-103	7.38	16.39	.792	5.50
2nd Volume:	1:23	↓	↓	-104	7.58	16.33	.799	5.50
3rd Volume:	1:26	↓	↓	-102	7.36	16.55	.808	5.50
4th Volume:								
Addl. Volumes:								

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 5.50

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-3	1:27	6 VOAS/ 1 amber	HCL
		500 ml round plastic	none

COMMENTS:

Added DOE-tag ALS991

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:

Original Water Column: _____ x 0.80 = -(_____)

Collect sample when Depth to Water measures

Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 9/21/06 WELL NO. MW-4

FACILITY NAME: 256380 TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Cloudy

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 7.20 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water _____ =	_____ PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water _____ =	_____ PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water _____ =	_____ PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 10:59 END: 11:27

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct.	SWL
1st Volume:	11:04	L	C	54	7.43	14.61	.004	7.20
2nd Volume:	11:07			-13	7.12	14.44	.646	7.23
3rd Volume:	11:10			-5	7.04	15.07	.676	7.24
4th Volume:	11:13			6	7.06	15.15	.674	7.24
Addl. Volumes:								

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 7.24

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-4	11:14	6 VOAS/ 1 amber	HCL
		500 ml round plastic	none

COMMENTS:

Added DOE tag #LS 990
Added lock to Cap.
Took additional readings to Stabilize sample.

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:
Original Water Column: _____ x 0.80 = ___(_____)
Collect sample when Depth to Water measures
Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 9/21/06 WELL NO. MW-5

FACILITY NAME: 256380 TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: cloudy

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 4.85 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water _____ =	_____ PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water _____ =	_____ PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water _____ =	_____ PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 12:40 END: 1:07

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct.	SWL
1st Volume:	12:45	L	C	-49	7.32	17.54	.622	5.03
2nd Volume:	12:48	↓	↓	-58	7.34	17.55	.646	5.06
3rd Volume:	12:51	↓	↓	-49	7.33	17.60	.658	5.08
4th Volume:	_____	_____	_____	_____	_____	_____	_____	_____
Addl. Volumes:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 5.08

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-5	12:52	6 VOAS/ 1 amber	HCL
		500 ml round plastic	none

COMMENTS:

DOE tag - APB 691

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:

Original Water Column: _____ x 0.80 = --(_____)

Collect sample when Depth to Water measures

Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 9/21/06 WELL NO. MW-6

FACILITY NAME: 256380 TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: cloudy

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 6.39 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water _____ =	_____ PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water _____ =	_____ PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water _____ =	_____ PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 12:06 END: 12:35

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct.	SWL
1st Volume:	12:11	L	C	-87	7.76	~~15.76~~ 15.55	.736	6.41
2nd Volume:	12:14	↓	↓	-82	7.58	15.26	.747	6.39
3rd Volume:	12:17	↓	↓	-74	7.58	15.20	.746	6.40
4th Volume:	_____	_____	_____	_____	_____	_____	_____	_____
Addl. Volumes:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 6.40

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-6	12:18	6 VOAS/ 1 amber	HCL
		500 ml round plastic	none

COMMENTS:

DOE tag – APB692

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:

Original Water Column: _____ x 0.80 = _____

Collect sample when Depth to Water measures

Less than or equal to:

SECOR

GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 9/21/06 WELL NO. MW-7

FACILITY NAME: 256380 TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Cloudy

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 7.56 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water _____ =	_____ PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water _____ =	_____ PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water _____ =	_____ PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 11:33 END: 12:00

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct.	SWL
1st Volume:	11:38	L	C	-86	7.48	16.32	.796	7.61
2nd Volume:	11:41	↓	↓	-90	7.28	16.23	.802	7.61
3rd Volume:	11:44	↓	↓	-90	7.46	16.10	.796	7.61
4th Volume:	_____	_____	_____	_____	_____	_____	_____	_____
Addl. Volumes:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 7.61

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-7	11:45	6 VOAS/ 1 amber	HCL
		500 ml round plastic	none

COMMENTS:

DOE tag APB 694

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:

Original Water Column: _____ x 0.80 = _____

Collect sample when Depth to Water measures Less than or equal to:

SECOR
GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 9/21/06 WELL NO. MW-8

FACILITY NAME: 256380 TEMPERATURE: 55 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: _____

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 8.42 FT. or IN.

B. Thickness of Free Product, if present: _____ Inches _____ FT. or IN.

C. Total Depth of well (TD) from top of casing/piezometer: _____ FT. or IN.

D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.

E. **Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:**

	3 Well Vols.	5 Well Vols.		
2" Diameter =	0.5 gals/ft	0.82 gals/ft	x feet of water _____ =	_____ PV (Gal)
4" Diameter =	2.0 gals/ft	3.25 gals/ft	x feet of water _____ =	_____ PV (Gal)
6" Diameter =	4.4 gals/ft	7.35 gals/ft	x feet of water _____ =	_____ PV (Gal)

PURGING METHOD: LOW FLOW DURATION: START: 9:47 END: 10:10

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct.	SWL
1st Volume:	9:52	L	C	-37	7.38	17.28	.797	8.51
2nd Volume:	9:55	↓	↓	-44	7.34	17.27	.826	8.51
3rd Volume:	9:58	↓	↓	-55	7.37	17.32	.836	8.51
4th Volume:								
Addl. Volumes:								

TOTAL VOLUME OF WATER PURGED FROM WELL: .25 gallons

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Taken offsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 9:59 8.51

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-8	9:59	6 VOAS/ 1 amber	HCL
		500 ml round plastic	none

COMMENTS:

APB 1693
Treplaced 1 bolt.

Casing Capacities:
2-inch hole.....0.16 gal/lin ft.
4-inch hole.....0.65 gal/lin ft.
6.5-inch hole.....1.70 gal/lin ft.
8-inch hole.....2.60 gal/lin ft.
10-inch hole.....4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well:

Original Water Column: _____ x 0.80 = ___ (_____)

Collect sample when Depth to Water measures

Less than or equal to:

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories

04413

For Lancaster Laboratories use only

Acct. #: ______ Group # ______ Sample #: ______

SCR#: 32370

Site #: 256380 WNO #: ______

Site Address: Ellingham, WA

ConocoPhillips PM: Jim Hatter Company Code: SEC

Core Work Order#: ______ Total Lab Budget: ______

Consultant/Office: Redmond, WA

Consultant Prj. Mgr: Marc Sauze 372-

Consultant Phone #: 425 372-1600 Fax #: 1650

Sampler: Tammy Parise

Analyses Requested — List total number of containers in the box under each analysis.

Preservation Codes: H, H, H

Analyses: TPH-g; TPH-d w/silica gel (Ramp); BTEX/MTBE/EDB/EDC; Lead

Preservative Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil ☐ Air ☐	TPH-g (H)	TPH-d w/silica gel (H)	(Ramp)	BTEX/MTBE/EDB/EDC (H)	Lead	Remarks
MW-8	9/21/06	9:59	✓			✓		✓	✓		✓	✓	
MW-2		10:35											
MW-4		11:14											
MW-7		11:45											
MW-6		12:18											
MW-5		12:52											
Trip blanks													

Matrix: ☐ Potable ☐ NPDES

Turnaround Time Requested in Business Days (TAT) (please circle):

(STD. TAT) 5 day 48 hour
24 hour other ______

Reporting Requirements (please circle)

NJ Reduced NY ASP Cat. A Raw Data Diskette
NY ASP Cat. B Full Type I Other ______

Relinquished by:	Date	Time	Received by:	Date	Time
K. Hewitt	9-8-06	0710			
Tammy Parise	9/7/06	3:00			

Relinquished by Commercial Carrier:
UPS ______ FedEx ______ Other ______

Temperature Upon Receipt ______ C°

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories

04412

For Lancaster Laboratories use only

Acct. #: _____ Group # _____ Sample #: _____

SCR#: _____

Site #: 256380 WNO #: _____

Site Address: Bellingham, WA

ConocoPhillips PM: Tim Trotter Company Code: SEC

Core Work Order#: _____ Total Lab Budget: _____

Consultant/Office: Redmond, WA

Consultant Prj. Mgr: Marc Sauze

Consultant Phone #: 425 372-1600 Fax #: 425 372-1650

Sampler: Tammy Hatke

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Oil ☐ Air ☐	Potable ☐ NPDES ☐	Preservation Codes: H	H				Analyses Requested: List total number of containers in the box under each analysis.	Remarks
MW-3	9/21/06	1:27													
MW-11	"	2:09													
Trip blanks															

Preservative Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; O = Other

Analyses Requested: TPH-D w/silica gel; TPH-G; BTEX MTBE 8260B; Lead

Turnaround Time Requested in Business Days (TAT) (please circle):

STD. TAT | 5 day | 48 hour | 24 hour | other _____

Reporting Requirements (please circle)

NJ Reduced | NY ASP Cat. A | Raw Data | Diskette | NY ASP Cat. B | Full Type I | Other _____

Relinquished by:	Date	Time	Received by:	Date	Time
Tammy Hatke	9/21/06	3:15P			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature Upon Receipt _____ C°

4531.01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Lancaster Laboratories

Sample Container Record

Order Number: 32370
Order Date: 08/18/2006

Standard Frm#: 73396

Client: 11817
ConocoPhillips
256380 - Bellingham, WA

Ship To:

SECOR International
12034 134th Court NE
Ste 102
Redmond, WA 98052
425-372-1600
Attn: Tammy Parise

Group: 1

Number of Sample Locations: 9

One complete set of bottles listed below must be filled for each of the 9 sample location(s).

QC type

Count	Code	Description	Preservative	Analysis Name	Hold Time
3	26	40 ml glass vial	HCl	TPH by NWTPH-Gx waters	14 days
1	29	1000 ml round amber glass	HCl	TPH by NWTPH-Dx(water) w/SIGel	14 days
3	38	40 ml glass vial (GC/MS)	HCl	UST-Unleaded Waters by 8260B	14 days

Group: 2

Number of Sample Locations: 9

One complete set of bottles listed below must be filled for each of the 9 sample location(s).

QC type

Count	Code	Description	Preservative	Analysis Name	Hold Time
1	15	500 ml round plastic	None	Lead	6 months

Group: 3

Number of Sample Locations: 1

Sample Description	QC type
Trip Blank	Trip Blank

Count	Code	Description	Preservative	Analysis Name	Hold Time
2	26	40 ml glass vial	HCl	TPH by NWTPH-Gx waters	14 days
2	38	40 ml glass vial (GC/MS)	HCl	UST-Unleaded Waters by 8260B	14 days

If you have any questions, please contact your Client Service Representative, Megan Moeller at (717) 656-2300 X 1246

Date Needed:	Shipping Method	This order is:
09/12/2006	2nd Day	Per your Request