

NW1290

release 1855
unocal #5028

Blaine

DATE: March 27, 2006

ConocoPhillips**RECEIVED****GROUNDWATER MONITORING REPORT**

MAR 29 2006

Site No.: 255028 Address: 247 D Street, Blaine, Washington? DEPT OF ECOLOGY
 ConocoPhillips Site Manager: Kipp W. Eckert
 Consultant / Contact Person: SECOR International Inc. / Marc Sauze
 Primary Agency/Regulatory ID No.: Washington State Department of Ecology / Site ID No. 8472
 SECOR Project No: 01CP.05028.08

WORK PERFORMED THIS QUARTER(S) [3rd - 2005]:

- On December 14, 2005, SECOR personnel monitored seven (MW-1 through MW-4 and MW-6 through MW-8) and purged and sampled six (MW-2A through MW-4 and MW-6 through MW-8) of the existing network of eight groundwater monitoring wells (MW-1 through MW-8). Depth to water was recorded in MW-1 but no sample was collected because the well has not historically contained detectable concentrations of petroleum hydrocarbons and halogenated volatile organic compounds (HVOCs). MW-5 was not monitored because it could not be located and has not been monitored since August 12, 1999.
- 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 purging and sampling procedures are provided in Attachment B.
- Samples were submitted to Lancaster Laboratories for analysis of gasoline range hydrocarbon (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, and total xylenes (BTEX), per United States Environmental Protection Agency (USEPA) Method 8021 and volatile organic compounds (VOCs) per USEPA Method 5035/8260B. The laboratory report is presented in Attachment A.

WORK PROPOSED FOR NEXT QUARTER [1st - 2006]:

- Measure depth to water of seven (MW-1 through MW-4 and MW-6 through MW-8) and purge and sample six (MW-2A, MW-3, MW-4 and MW-6 through MW-8) groundwater monitoring wells. Submit groundwater samples for analysis for NWTPH-Gx, NWTPH-Dx, BTEX, Methyl tert-butyl ether (MTBE) and VOCs.

DATA SUMMARY THIS QUARTER:

Frequency of Sampling Events:

Depth to Groundwater:

Groundwater Gradient:

Maximum TPH-G Concentrations:

Maximum TPH-D Concentrations:

Maximum TPH-O Concentrations:

Maximum Benzene Concentration:

Maximum TCE Concentration:

Maximum 1,2-DCA Concentration:

Maximum Vinyl Chloride Concentration:

Measurable Free Product Detected:

Free Product Recovered This Quarter:

Quarterly

2.60 ft (MW-7)

to 3.85 ft (MW-6)

West-Southwest

0.07 feet per foot

69 µg/L (MW-6)

None Detected

200 µg/L (MW-6)

0.3 µg/L (MW-3)

5 µg/L (MW-8)

None Detected

4 µg/L (MW-8)

No

None

(3/05,6/05,9/05,12/05)

(Measured Feet Below

Top of Well Casing)

(Inferred Flow Direction)

(Approximate Magnitude)

(ppb / well ID)

(Yes - ID well(s)/No)

(Gallons)

entered
CP
3-30-06

Cumulative Free Product Recovered to Date:	None	(Gallons)
Water Wells or	No Water Wells Identified	(Type)
Surface Waters w/in 2,000 ft:	Semiahmoo Bay	
Radius and Respective Direction From Site:	1,000 ft, West	(Distance & Direction)
Current Remedial Action:	NA	(SVE/AS/P&T/NA etc.)
Permits for Discharge:	None	(NPDES, POTW, etc.)

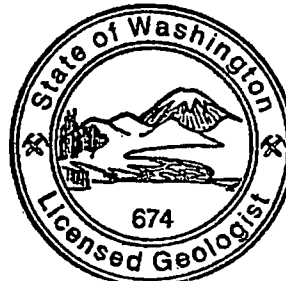
DISCUSSION:

- The inferred groundwater direction at the site is to the southwest. MW-7 was not used in flow determinations because the elevation appears to be anomalously low.
- The groundwater samples were received by Lancaster Laboratories on September 17, 2005. 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.
- Gasoline range hydrocarbons (TPH-g) were detected at concentrations greater than the laboratory reporting limits (RLs) but less than the Model Toxics Control Act Method A Cleanup Levels for groundwater (MTCA A) in the sample collected from MW-6 at 69 micrograms per liter ($\mu\text{g/L}$). No gasoline range hydrocarbons were detected at concentrations greater than the RLs in any other groundwater samples collected this quarter.
- Diesel range hydrocarbons (TPH-d) were not detected at concentrations greater than the RLs in any of the groundwater samples collected this quarter.
- Heavy-oil-range hydrocarbons (TPH-o) were detected at concentrations greater than the RLs but less than MTCA A in the groundwater sample collected from MW-6 at 200 $\mu\text{g/L}$. TPH-o was not detected at concentrations greater than the RLs in any other groundwater samples collected this quarter.
- Methyl Tertiary Butyl Ether (MTBE) was detected at a concentration greater than MTCA A in the groundwater sample collected from MW-8 at 40 $\mu\text{g/L}$. MTBE was also detected at concentrations above the RLs for samples collected from MW-2A and MW-3 at 0.4 $\mu\text{g/L}$ and 8.2 $\mu\text{g/L}$, respectively.
- Benzene was detected at concentrations greater than the RLs but less than MTCA A in the groundwater sample collected from MW-3 at 0.3 $\mu\text{g/L}$. Benzene was not detected at concentrations greater than the RLs in any other groundwater samples collected this quarter.
- Toluene was detected at concentrations greater than the RLs but less than MTCA A in the groundwater sample collected from MW-6 at 1.6 $\mu\text{g/L}$. Toluene was not detected at concentrations greater than the RLs in any other groundwater samples collected this quarter.
- Ethylbenzene was detected at concentrations greater than the RLs but less than MTCA A in the groundwater sample collected from MW-6 at 0.5 $\mu\text{g/L}$. Ethylbenzene was not detected at concentrations greater than the RLs in any other groundwater samples collected this quarter.
- Trichloroethene (TCE) was detected at concentrations greater than MTCA A in the groundwater sample collected from MW-8 at 5 $\mu\text{g/L}$. TCE was also detected at concentrations above the RLs but less than MTCA A in groundwater sample collected from MW-7 at 2 $\mu\text{g/L}$.
- Cis-1,2-Dichloroethene (1,2-DCE) was detected at concentrations greater than the RLs in the groundwater samples collected from MW-4, MW-7, and MW-8 at 14 $\mu\text{g/L}$, 3 $\mu\text{g/L}$, and 32 $\mu\text{g/L}$, respectively. No cleanup level is currently established for 1,2-DCE under MTCA A.
- Vinyl Chloride (VC) was detected at concentrations greater than MTCA A in the groundwater sample collected from MW-8 at 4 $\mu\text{g/L}$.

- One drum containing approximately 20 gallons of purge water was labeled and left on site.

ATTACHMENTS:

Figure 1: Site Location Map
Figure 2: Site Plan with Groundwater Elevations (12/14/05)
Figure 3: Site Plan with Analytical Results (03/03/05 – 12/14/05)
Table 1: Summary of 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



GREGORY A. McCORMICK

Prepared By:

Meredith Redmon

Meredith Redmon
Staff Scientist

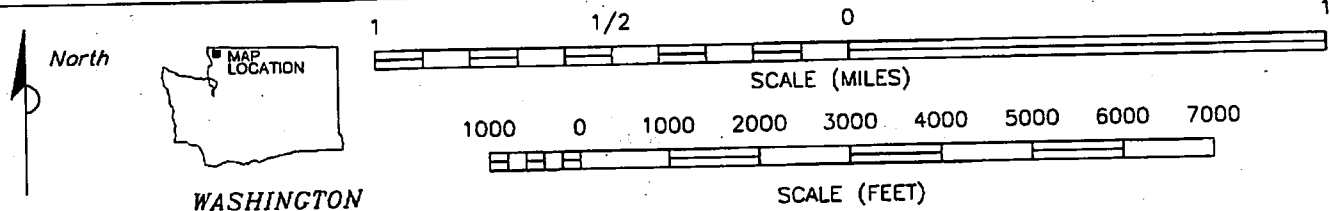
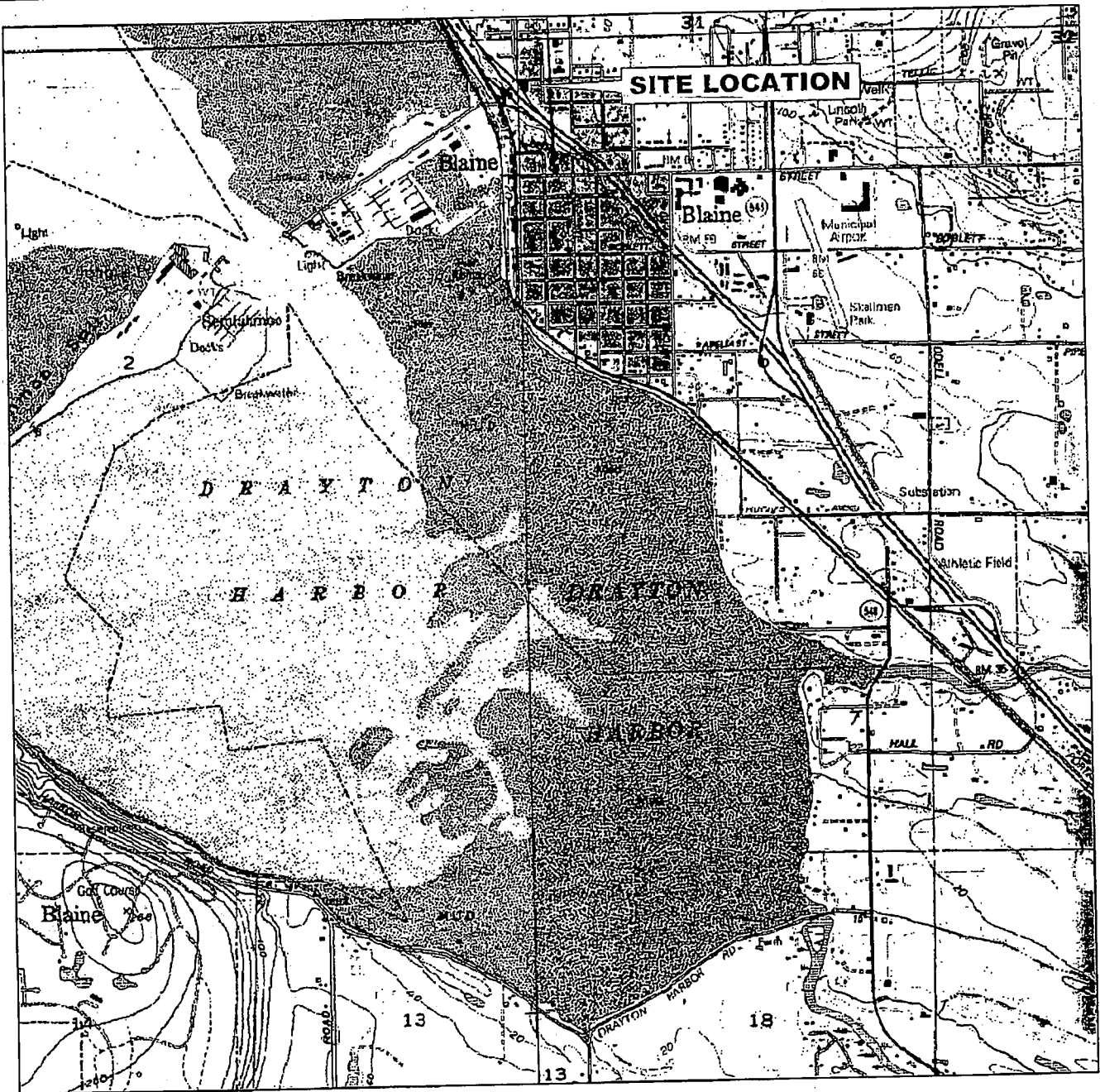
Reviewed By:

Gregory McCormick

Gregory McCormick, L.G.
Associate Geologist

CC: Washington State Department of Ecology, Northwest Regional Office
Meuchadim of Washington LP, Property Owner

MR/MS/bjw

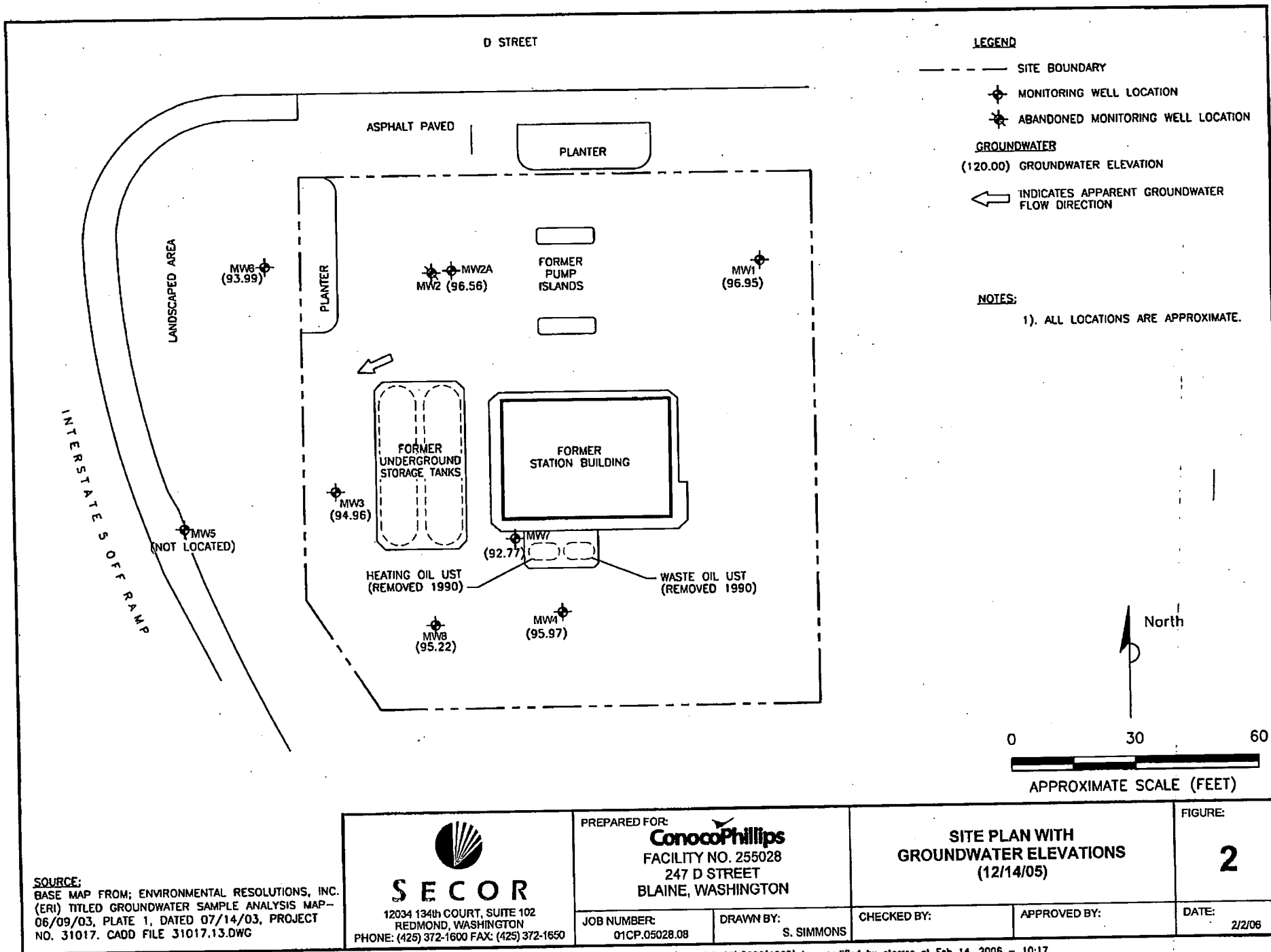


REFERENCE: USGS 7.5 MINUTE QUADRANGLE; BLAINE, WASHINGTON; 1952

 SECOR 12034 134th COURT, SUITE 102 REDMOND, WASHINGTON PHONE: (425) 372-1600 FAX: (425) 372-1650	PREPARED FOR: ConocoPhillips FACILITY NO 255028 247 D STREET BLAINE, WASHINGTON	SITE LOCATION MAP		FIGURE: 1
JOB NUMBER: 01CP.05028.08	DRAWN BY: S. SIMMONS	CHECKED BY:	APPROVED BY:	DATE: 2/2/06

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SOURCE:
 BASE MAP FROM: ENVIRONMENTAL RESOLUTIONS, INC.
 (ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP--
 06/09/03, PLATE 1, DATED 07/14/03, PROJECT
 NO. 31017. CADD FILE 31017.13.DWG


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 REDMOND, WASHINGTON
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PREPARED FOR:
ConocoPhillips
 FACILITY NO. 255028
 247 D STREET
 BLAINE, WASHINGTON

JOB NUMBER:
 01CP.05028.08

DRAWN BY:
 S. SIMMONS

CHECKED BY:

APPROVED BY:

FIGURE:

2

DATE:
 2/2/06

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D STREET

LEGEND

--- SITE BOUNDARY

* MONITORING WELL LOCATION

* ABANDONED MONITORING WELL LOCATION

ANALYTES

TPHg TOTAL PETROLEUM
HYDROCARBONS GASOLINETPHd TOTAL PETROLEUM
HYDROCARBONS DIESELTPHo TOTAL PETROLEUM
HYDROCARBONS OIL

B BENZENE

T TOLUENE

E ETHYLBENZENE

X TOTAL XYLENES

MTBE METHYL TERT-BUTYL ETHER

TCE TRICHLOROETHENE

1,2-DCE cis-1,2-DICHLOROETHENE

CA CHLOROETHANE

1,1-DCA 1,1-DICHLOROETHANE

1,2-DCA 1,2-DICHLOROETHANE

VC VINYL CHLORIDE

-- NOT ANALYZED OR DETECTED

(µg/L) MICROGRAMS PER LITER

(NS) NOT SAMPLED

NOTES:

1). ALL LOCATIONS ARE APPROXIMATE.

2). ALL RESULTS ARE IN (µg/L)

North

0 30 60
APPROXIMATE SCALE (FEET)

MW6	3/3/05	6/9/05	9/15/05	12/14/05
TPHg	<100	<100	<48	69
TPHd	<237	<238	<74	<75
TPHo	<474	<476	<93	200
B	<1.00	<1	<0.5	<0.2
T	<1.00	<1	<0.5	1.6
E	<1.00	<1	<0.5	0.5
X	<3.00	<3	<1.5	<0.6
1,2-DCE	<0.0	<1	<0.8	<0.8
CA	<1.00	<1	<1	<1
1,1-DCA	<1.00	<1	<1	<1
1,2-DCA	1.31	<1	<1	<1
VC	<1.00	<1	<1	<1
MTBE	--	5.12	--	<5.0
TCE	<1	<1	<1	<1

MW2A	3/3/05	6/9/05	9/15/05	12/14/05
TPHg	<100	<100	<48	<48
TPHd	<240	<238	<160	<75
TPHo	<480	<476	<200	<94
B	<1.00	<1	<0.5	<0.2
T	<1.00	<1	<0.5	<0.2
E	<1.00	<1	<0.5	<0.2
X	<3.00	<3	<1.5	<0.6
1,2-DCE	<1.0	<1	<0.8	<0.8
CA	<1.0	<1	<1	<1
1,1-DCA	<1.0	<1	<1	<1
1,2-DCA	<1.0	<1	<1	<1
VC	<1.0	<1	<1	<1
MTBE	--	<1	--	0.4
TCE	--	<1	<1	<1

MW3	3/3/05	6/9/05	9/15/05	12/14/05
TPHg	<100	<100	<48	<48
TPHd	<238	<238	<75	<76
TPHo	<476	<476	<94	<95
B	<1.00	4.83	0.7	0.3
T	<1.00	<1	<0.5	<0.2
E	<1.00	<1	<0.5	<0.2
X	<3.00	<3	<1.5	<0.6
1,2-DCE	<1.0	<1	<0.8	<0.8
CA	<1.0	<1	<1	<1
1,1-DCA	<1.0	<1	<1	<1
1,2-DCA	<1.0	<1	<1	<1
VC	<1.0	2.13	<1	<1
MTBE	--	39.8	--	8.2
TCE	--	<1	<1	<1

MW7	6/9/05	9/15/05	12/14/05
TPHg	<100	<48	<48
TPHd	<238	<75	<75
TPHo	<476	<94	<94
B	<1	2.6	<0.2
T	<1	<0.5	<0.2
E	<1	<0.5	<0.2
X	<3	<1.5	<0.6
1,2-DCE	<1	460	3
CA	<1	<1	<1
1,1-DCA	<1	<1	<1
1,2-DCA	156	<1	<1
VC	6.36	34	<1
MTBE	138	--	<0.3
TCE	14.6	230	2

MW4	3/3/05	6/9/05	9/15/05	12/14/05
TPHg	<100	<100	<48	<48
TPHd	<242	<238	<75	<75
TPHo	<483	<476	<94	<94
B	<1.00	<1	<0.5	<0.2
T	<1.00	<1	<0.5	<0.2
E	<1.00	<1	<0.5	<0.2
X	<3.00	<3	<1.5	<0.6
1,2-DCE	23.8	32.5	30	14
CA	<1.0	<1	<1	<1
1,1-DCA	<1.0	<1	<1	<1
1,2-DCA	<1.0	<1	<1	<1
VC	<1.0	2.84	3	<1
MTBE	--	<1	--	<0.3
TCE	--	<1	<1	<1

MW8	6/9/05	9/15/05	12/14/05
TPHg	<100	<48	<48
TPHd	<238	<75	<75
TPHo	<476	<94	<94
B	<5	0.6	<0.2
T	<5	<0.5	<0.2
E	<5	<0.5	<0.2
X	<15	<1.5	<0.6
1,2-DCE	<5	72	32
CA	<5	<1	<1
1,1-DCA	<5	<1	<1
1,2-DCA	177	<1	<1
VC	36.3	9	4
MTBE	<5	--	<40
TCE	72	12	5

SOURCE:
BASE MAP FROM: ENVIRONMENTAL RESOLUTIONS, INC.
(ERI) TITLED GROUNDWATER SAMPLE ANALYSIS MAP--
06/09/03, PLATE 1, DATED 07/14/03, PROJECT
NO. 31017. CADD FILE 31017.13.DWG



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ConocoPhillips

FACILITY NO. 255028

247 D STREET

BLAINE, WASHINGTON

JOB NUMBER:

01CP.05028.08

DRAWN BY:

S. SIMMONS

CHECKED BY:

APPROVED BY:

DATE:

2/2/06

SITE PLAN
WITH ANALYTICAL RESULTS
(3/3/05 - 12/14/05)

FIGURE:

3

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TABLES

TABLE 1 SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS Coronado Phillips Facility No. 265028 247 O Street Blaine, Washington																	
Well Name TOC Elevation	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	TCE	1,2-DCE	CA	1,1-DCA	1,2-DCA	VC	MTBE
MW1 100.42	03/03/05	3.38	97.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/05	3.57	96.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/15/05	6.22	94.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/14/05	3.47	98.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2 98.49	Destroyed																
MW2A 99.17	03/03/05	3.03	96.14	<100	<240	<480	<1.00	<1.00	<1.00	<3.00	*	<1.0	<1.0	<1.0	<1.0	<1.0	--
	06/09/05	3.15	96.02	<100	<238	<476	<1	<1	<1	<3	<1	<1	<1	<1	<1	<1	<1
	09/15/05	4.78	94.41	<48	<160	<200	<0.5	<0.5	<0.5	<1.5	<1	<0.8	<1	<1	<1	<1	0.4
	12/14/05	2.81	96.56	<48	<75	<96	<0.2	<0.2	<0.2	<0.8	<1	<0.8	<1	<1	<1	<1	--
MW3 98.57	03/03/05	1.98	96.59	<100	<238	<476	<1.00	<1.00	<1.00	<3.00	*	<1.0	<1.0	<1.0	<1.0	<1.0	--
	06/09/05	2.91	95.66	<100	<238	<476	4.83	<1	<1	<3	<1	<1	<1	<1	<1	<1	39.8
	08/15/05	5.87	92.70	<48	<75	<94	0.7	<0.5	<0.5	<1.5	<1	<0.8	<1	<1	<1	<1	8.2
	12/14/05	3.61	94.99	<48	<76	<95	0.3	<0.2	<0.2	<0.8	<1	<0.8	<1	<1	<1	<1	--
MW4 99.53	03/03/05	4.57	94.96	<100	<242	<483	<1.00	<1.00	<1.00	<3.00	*	23.8	<1.0	<1.0	<1.0	<1.0	--
	06/09/05	3.83	95.70	<100	<238	<478	<1	<1	<1	<3	<1	32.5	<1	<1	<1	<1	2.84
	09/15/05	6.67	92.68	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	<1	30	<1	<1	<1	<1	3
	12/14/05	3.58	95.97	<48	<75	<94	<0.2	<0.2	<0.2	<0.8	<1	14	<1	<1	<1	<1	<0.3
MW5 92.98	08/12/99	Unable to Locate Since 8/12/99															
MW6 97.84	03/03/05	4.84	93.20	<100	<237	<474	<1.00	<1.00	<1.00	<3.00	*	<1.0	<1.0	<1.0	1.31	<1.0	--
	06/09/05	4.98	92.88	<100	<238	<476	<1	<1	<1	<3	<1	<1	<1	<1	<1	<1	5.12
	09/15/05	6.50	91.34	<48	<74	<93	<0.5	<0.5	<0.5	<1.5	<1	<0.8	<1	<1	<1	<1	--
	12/14/05	3.85	93.89	89	<75	200	<0.2	1.8	0.5	<0.8	<1	<0.8	<1	<1	<1	<1	<5.0 ¹
MW7 95.37	06/09/05	3.16	NM	<100	<238	<476	<1	<1	<1	<3	14.6	<1	<1	<1	156	6.36	138
	9/15/2005 ¹⁰	4.82	90.55	<48	<75	<94	2.8	<0.5	<0.5	<1.5	230	460	<1	<1	<1	34	--
	12/14/05	2.60	92.77	<48	<75	<94	<0.2	<0.2	<0.2	<0.8	2	3	<1	<1	<1	<1	<0.3
MW8 99.03	06/09/05	4.31	NM	<100	<238	<476	<5	<5	<5	<15	72	<5	<5	<5	177	36.3	<5
	09/15/05	6.22	92.83	<48	<75	<94	0.6	<0.5	<0.5	<1.5	12	72	<1	<1	<1	9	--
	12/14/05	3.83	95.22	<48	<75	<94	<1.0	<0.2	<0.2	<0.8	8	32	<1	<1	<1	4	40 ¹
MTCA Method A Cleanup Level: 1000/800/500/500/500/500/500/500/500/500/500/500/500/500/500/500/500/500																	

EXPLANATION:

All concentrations are in ug/L (ppb).

TOC = Top of casing. Wellhead elevations were taken from prior consultant's reports.

DTW = Depth to water in feet below top of casing

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

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

1,2-DCE = Cis-1,2-Dichloroethene; CA = Chloroethane; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; VC = Vinyl Chloride; TCE = Trichloroethane; MTBE = Methyl Tert-Butyl Ether

1,2-DCE, CA, 1,1-DCA, 1,2-DCA, TCE, Chloroethane and VC by EPA 8010B (modified) or EPA 8260B; refer to lab reports

BTEX = Aromatic compounds by EPA Method 8020, EPA 8021B or 8260B; refer to official laboratory reports

* TCE not reported prior to 6/9/05. Data may be available in previous reports.

< = Less than the stated laboratory reporting limit

NM = Not Measured; NA = Not Applicable;

ND = Not Detected above the laboratory reporting limit; -- = Not Analyzed or Sampled

Bolded values equal or exceed MTCA Method A Cleanup Levels.

¹ Concentration levels stated by MTCA Method A for TPH-G are 1000 ug/L when no

benzene is present and 800 ug/L when benzene is present.

Data collected before 12/12/03 are taken from prior consultants

¹⁰ 1,1-dichloroethene and trans-1,2-dichloroethene both detected in this sample at concentrations of 3 ug/L

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



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2881 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips c/o Shaw Env.
19909 120th Ave. NE
Suite 101
Bothell WA 98011

206-706-2341

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 971472. Samples arrived at the laboratory on Friday, December 16, 2005. The PO# for this group is 1344SEC008 and the release number is ECKERT.

Client Description

MW-2A Grab Water Sample
MW-3 Grab Water Sample
MW-4 Grab Water Sample
MW-6 Grab Water Sample
MW-7 Grab Water Sample
MW-8 Grab Water Sample
Trip Blank Water Sample

Lancaster Labs Number

4672293
4672294
4672295
4672296
4672297
4672298
4672299

1 COPY TO
1 COPY TO

SECOR International
SECOR International

Attn: August Welch
Attn: Meredith Redmon



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2881 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Teresa L Cunningham at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Jennifer E. Hess".

Jennifer E. Hess
Manager



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. WW 4672293

MW-2A Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 13:40 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

DSB2A

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
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	0.4	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672293

MW-2A Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 13:40 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.

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Suite 101

Bothell WA 98011

DSB2A

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	12/20/2005 20:44	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/19/2005 19:02	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	12/19/2005 19:02	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	12/20/2005 14:20	Seth J Good	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	12/20/2005 14:20	Seth J Good	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/19/2005 19:02	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/20/2005 14:20	Seth J Good	n.a.
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	12/20/2005 02:30	Sherry L Morrow	1



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Lancaster Laboratories Sample No. WW 4672294

MW-3 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 13:10 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.

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DSB03

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
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	8.2	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.6	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672294

MW-3 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 13:10 by MD

Account Number: 11817

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Suite 101
Bothell WA 98011

Submitted: 12/16/2005 09:55
Reported: 12/23/2005 at 13:20
Discard: 01/23/2006

DSB03

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

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	12/20/2005 21:08	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/19/2005 19:32	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	12/19/2005 19:32	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	12/21/2005 13:45	Parker D Lindstrom	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	12/21/2005 13:45	Parker D Lindstrom	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/19/2005 19:32	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2005 13:45	Parker D Lindstrom	n.a.
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	12/20/2005 02:30	Sherry L Morrow	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672295

MW-4 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 10:38 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.

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DSB04

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
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethane	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	14.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672295

MW-4 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 10:38 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

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DSB04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

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	12/20/2005 21:32	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/19/2005 20:03	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	12/19/2005 20:03	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	12/21/2005 14:08	Parker D Lindstrom	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	12/21/2005 14:08	Parker D Lindstrom	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/19/2005 20:03	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2005 14:08	Parker D Lindstrom	n.a.
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	12/20/2005 02:30	Sherry L Morrow	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672296

MW-6 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 14:12 by MD

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

Account Number: 11817

ConocoPhillips c/o Shaw Env.
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DSB06

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.	2004	94.	ug/l	1
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	1.55	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	0.85	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	5.0	ug/l	1
Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.						
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	59.20	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672296

MW-6 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 14:12 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.

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DSB06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
05408	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.		0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.		1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	ug/l	1
05419	Bromoform	75-25-2	N.D.		1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.		1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.		1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.		1.	ug/l	1
08202	Volatiles 8260 full scan cont						
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/l	1
08203	Freon 113	76-13-1	N.D.		2.	ug/l	1

State of Washington Lab Certification No. C259

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	12/20/2005	21:56	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/19/2005	22:03	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	12/19/2005	22:03	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	12/21/2005	14:30	Parker D Lindstrom	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	12/21/2005	14:30	Parker D Lindstrom	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/19/2005	22:03	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2005	14:30	Parker D Lindstrom	n.a.
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	12/20/2005	02:30	Sherry L Morrow	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672297

MW-7 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 11:45 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

DSB07

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
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Pull Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672297

MW-7 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 11:45 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.

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DSB07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

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	12/20/2005 22:20	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/19/2005 22:34	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	12/19/2005 22:34	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	12/21/2005 14:53	Parker D Lindstrom	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	12/21/2005 14:53	Parker D Lindstrom	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/19/2005 22:34	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2005 14:53	Parker D Lindstrom	n.a.
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	12/20/2005 02:30	Sherry L Morrow	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672298

MW-8 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 11:17 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

DSB08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
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
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	1.0	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	0.3	ug/l	1
Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for benzene. The presence or concentration of this compound cannot be determined due to the presence of this interferent.						
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1
05382	Volatiles by 8260 Full Scan					
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1



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Lancaster Laboratories Sample No. WW 4672298

MW-8 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 12/14/2005 11:17 by MD

Account Number: 11817

Submitted: 12/16/2005 09:55

Reported: 12/23/2005 at 13:20

Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.

19909 120th Ave. NE

Suite 101

Bothell WA 98011

DSB08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethane	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
08202	Volatiles 8260 full scan cont					
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
08203	Freon 113	76-13-1	N.D.	2.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	12/20/2005 22:44	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/19/2005 23:04	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	12/19/2005 23:04	Martha L Seidel	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	12/21/2005 15:16	Parker D Lindstrom	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	12/21/2005 15:16	Parker D Lindstrom	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/19/2005 23:04	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/21/2005 15:16	Parker D Lindstrom	n.a.
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	12/20/2005 02:30	Sherry L Morrow	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4672299

Trip Blank Water Sample
Site# 1344 (255028)
247 D St-Blaine, WA
Collected: n.a.

Account Number: 11817

Submitted: 12/16/2005 09:55
Reported: 12/23/2005 at 13:20
Discard: 01/23/2006

ConocoPhillips c/o Shaw Env.
19909 120th Ave. NE
Suite 101
Bothell WA 98011

DSBTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.2	ug/l	1
00777	Toluene	108-88-3	N.D.	0.2	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	48.	ug/l	1

State of Washington Lab Certification No. C259

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08214	BTEX, MTBE (8021)	SW-846 8021B	1	12/19/2005 17:32	Martha L Seidel	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	12/19/2005 17:32	Martha L Seidel	1
01146	GC VOA Water Prep	SW-846 5030B	1	12/19/2005 17:32	Martha L Seidel	1

Quality Control Summary

Client Name: ConocoPhillips c/o Shaw Env.
Reported: 12/23/05 at 01:20 PM

Group Number: 971472

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: 053530020A	Sample number(s): 4672293-4672298							
Diesel Range Organics	N.D.	0.080	mg/l	81	76	51-113	6	20
Heavy Range Organics	N.D.	0.10	mg/l					
Batch number: 05353A54A	Sample number(s): 4672293-4672299							
Benzene	N.D.	0.2	ug/l	103	97	86-119	6	30
Toluene	N.D.	0.2	ug/l	106	99	82-119	7	30
Ethylbenzene	N.D.	0.2	ug/l	106	100	81-119	6	30
Total Xylenes	N.D.	0.6	ug/l	108	102	82-120	6	30
Methyl tert-Butyl Ether	N.D.	0.3	ug/l	97	96	82-124	0	30
TPH by NWTPH-Gx waters	N.D.	48.	ug/l	88	90	70-130	2	30
Batch number: L053541AA	Sample number(s): 4672293							
Chloromethane	N.D.	1.	ug/l	88	88	66-139	0	30
Vinyl Chloride	N.D.	1.	ug/l	88	88	71-126	0	30
Bromomethane	N.D.	1.	ug/l	63	81	62-131	25	30
Chloroethane	N.D.	1.	ug/l	76	85	67-127	10	30
Trichlorofluoromethane	N.D.	2.	ug/l	90	89	70-148	1	30
1,1-Dichloroethene	N.D.	0.8	ug/l	92	93	79-130	0	30
Methylene Chloride	N.D.	2.	ug/l	92	92	85-120	0	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	91	92	83-117	1	30
1,1-Dichloroethane	N.D.	1.	ug/l	94	93	83-127	1	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	96	95	84-117	1	30
Chloroform	N.D.	0.8	ug/l	98	97	86-124	1	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	95	95	83-127	1	30
Carbon Tetrachloride	N.D.	1.	ug/l	93	94	77-130	0	30
1,2-Dichloroethane	N.D.	1.	ug/l	98	101	77-132	3	30
Trichloroethene	N.D.	1.	ug/l	94	93	87-117	1	30
1,2-Dichloropropane	N.D.	1.	ug/l	93	94	80-117	1	30
Bromodichloromethane	N.D.	1.	ug/l	95	96	83-121	1	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	98	100	86-113	3	30
Tetrachloroethene	N.D.	0.8	ug/l	90	91	74-125	1	30
Dibromochloromethane	N.D.	1.	ug/l	92	94	78-119	2	30
Chlorobenzene	N.D.	0.8	ug/l	96	96	85-115	1	30
Bromoform	N.D.	1.	ug/l	89	91	69-118	3	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	104	107	72-119	2	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	99	100	81-114	0	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	97	99	84-116	2	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	98	98	81-112	0	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	103	106	79-114	2	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	91	90	78-114	0	30
Freon 113	N.D.	2.	ug/l	79	83	73-140	5	30
Batch number: L053541AB	Sample number(s): 4672294-4672298							

*- 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.



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips c/o Shaw Env.
Reported: 12/23/05 at 01:20 PM

Group Number: 971472

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chloromethane	N.D.	1.	ug/l	88	88	66-139	0	30
Vinyl Chloride	N.D.	1.	ug/l	88	88	71-126	0	30
Bromomethane	N.D.	1.	ug/l	63	81	62-131	25	30
Chloroethane	N.D.	1.	ug/l	76	85	67-127	10	30
Trichlorofluoromethane	N.D.	2.	ug/l	90	89	70-148	1	30
1,1-Dichloroethene	N.D.	0.8	ug/l	92	93	79-130	0	30
Methylene Chloride	N.D.	2.	ug/l	92	92	85-120	0	30
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	91	92	83-117	1	30
1,1-Dichloroethane	N.D.	1.	ug/l	94	93	83-127	1	30
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	96	95	84-117	1	30
Chloroform	N.D.	0.8	ug/l	98	97	86-124	1	30
1,1,1-Trichloroethane	N.D.	0.8	ug/l	95	95	83-127	1	30
Carbon Tetrachloride	N.D.	1.	ug/l	93	94	77-130	0	30
1,2-Dichloroethane	N.D.	1.	ug/l	98	101	77-132	3	30
Trichloroethene	N.D.	1.	ug/l	94	93	87-117	1	30
1,2-Dichloropropane	N.D.	1.	ug/l	93	94	80-117	1	30
Bromodichloromethane	N.D.	1.	ug/l	95	96	83-121	1	30
1,1,2-Trichloroethane	N.D.	0.8	ug/l	98	100	86-113	3	30
Tetrachloroethene	N.D.	0.8	ug/l	90	91	74-125	1	30
Dibromochloromethane	N.D.	1.	ug/l	92	94	78-119	2	30
Chlorobenzene	N.D.	0.8	ug/l	96	96	85-115	1	30
Bromoform	N.D.	1.	ug/l	89	91	69-118	3	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	104	107	72-119	2	30
1,3-Dichlorobenzene	N.D.	1.	ug/l	99	100	81-114	0	30
1,4-Dichlorobenzene	N.D.	1.	ug/l	97	99	84-116	2	30
1,2-Dichlorobenzene	N.D.	1.	ug/l	98	98	81-112	0	30
trans-1,3-Dichloropropene	N.D.	1.	ug/l	103	106	79-114	2	30
cis-1,3-Dichloropropene	N.D.	1.	ug/l	91	90	78-114	0	30
Freon 113	N.D.	2.	ug/l	79	83	73-140	5	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05353A54A	Sample number(s): 4672293-4672299								
Benzene	106		78-131						
Toluene	111		78-129						
Ethylbenzene	111		75-133						
Total Xylenes	112		80-134						
Methyl tert-Butyl Ether	97		70-134						
TPH by NWTPH-Gx waters	89		63-154						
Batch number: L053541AA	Sample number(s): 4672293								
Chloromethane	96		69-155						
Vinyl Chloride	106		81-150						
Bromomethane	82		59-143						
Chloroethane	88		63-142						
Trichlorofluoromethane	122		77-177						
1,1-Dichloroethene	102		87-145						
Methylene Chloride	95		79-133						
trans-1,2-Dichloroethene	99		82-133						
1,1-Dichloroethane	105		85-135						

*- 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.



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips c/o Shaw Env.
Reported: 12/23/05 at 01:20 PM

Group Number: 971472

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
cis-1,2-Dichloroethene	101		83-126						
Chloroform	110		82-131						
1,1,1-Trichloroethane	115		81-142						
Carbon Tetrachloride	117		79-155						
1,2-Dichloroethane	116		70-143						
Trichloroethene	107		83-136						
1,2-Dichloropropane	98		83-129						
Bromodichloromethane	109		80-129						
1,1,2-Trichloroethane	101		77-125						
Tetrachloroethene	99		78-133						
Dibromochloromethane	98		82-119						
Chlorobenzene	104		83-120						
Bromoform	94		64-119						
1,1,2,2-Tetrachloroethane	104		69-128						
1,3-Dichlorobenzene	105		79-123						
1,4-Dichlorobenzene	103		81-122						
1,2-Dichlorobenzene	103		82-117						
trans-1,3-Dichloropropene	107		77-123						
cis-1,3-Dichloropropene	89		80-126						
Freon 113	105		73-166						

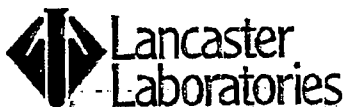
Batch number: L053541AB

Sample number(s): 4672294-4672298

Chloromethane	96		69-155
Vinyl Chloride	106		81-150
Bromomethane	82		59-143
Chloroethane	88		63-142
Trichlorofluoromethane	122		77-177
1,1-Dichloroethene	102		87-145
Methylene Chloride	95		79-133
trans-1,2-Dichloroethene	99		82-133
1,1-Dichloroethane	105		85-135
cis-1,2-Dichloroethene	101		83-126
Chloroform	110		82-131
1,1,1-Trichloroethane	115		81-142
Carbon Tetrachloride	117		79-155
1,2-Dichloroethane	116		70-143
Trichloroethene	107		83-136
1,2-Dichloropropane	98		83-129
Bromodichloromethane	109		80-129
1,1,2-Trichloroethane	101		77-125
Tetrachloroethene	99		78-133
Dibromochloromethane	98		82-119
Chlorobenzene	104		83-120
Bromoform	94		64-119
1,1,2,2-Tetrachloroethane	104		69-128
1,3-Dichlorobenzene	105		79-123
1,4-Dichlorobenzene	103		81-122
1,2-Dichlorobenzene	103		82-117
trans-1,3-Dichloropropene	107		77-123
cis-1,3-Dichloropropene	89		80-126
Freon 113	105		73-166

*- 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.



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips c/o Shaw Env.
Reported: 12/23/05 at 01:20 PM

Group Number: 971472

Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 053530020A
Orthoterphenyl

4672293	94
4672294	79
4672295	83
4672296	92
4672297	88
4672298	88
Blank	76
LCS	97
LCSD	90

Limits: 52-141

Analysis Name: BTEX, MTBE (8021)
Batch number: 05353A54A

	Trifluorotoluene-P	Trifluorotoluene-F
4672293	87	89
4672294	90	86
4672295	90	85
4672296	91	86
4672297	92	87
4672298	91	88
4672299	90	86
Blank	90	79
LCS	89	85
LCSD	90	84
MS	89	83

Limits: 69-129 63-135

Analysis Name: EPA SW846/8260 (water)
Batch number: L053541AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4672293	105	97	101	94
Blank	104	97	101	94
LCS	98	95	107	101
LCSD	98	95	107	101
MS	102	95	106	105

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

Analysis Name: EPA SW846/8260 (water)
Batch number: L053541AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4672294	110	99	100	97
4672295	112	96	101	96
4672296	110	98	100	98
4672297	111	98	102	98
4672298	111	98	101	97
Blank	108	97	98	97
LCS	98	95	107	101

*- 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.

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: _____

Client: **ConocoPhillips**

Site No: _____

Project No: _____

Scope of Work: x Quarter Monitoring/Sampling W/O #: _____

Describe Daily Activities:

Gauged 7 monitoring wells.
Purged 6 monitoring wells.
Sampled 8 monitoring wells.

Number of drums left on site: Added to existing drum

Field Notes:

915 NO waste. For 60 min. completed first and start.
930 gauged all wells.
1038 Sampled MW-4.
1117 Sampled MW-8.
1143 Sampled MW-7 Lunch from 1200-1300
1310 Sampled MW-3.
1340 Sampled MW-2A.
1412 Sampled MW-6.
1445 NO waste. OFFSITE

Arrived on Site: 915

Departed Site: 1445

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

Daily Health and Safety Log Completed?: Y

Utility Locations Checked?: _____

Important Conversations: _____

Important Changes in Scope of Work: _____

Weather Conditions: Sunny

Subcontractors On Site: _____

SECOR Personnel On Site: MD

Signed: March 2005

Date: 12-19-05

SECOR GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 12-14-05 WELL NO. MW-4
 FACILITY NAME: 5028 TEMPERATURE: 20.5 °F or °C
 FIELD PERSONNEL: NO WEATHER: rainy

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 3.56 FT. or IN.
 B. Thickness of Free Product, if present: _____ Inches 12.4 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 1028

OBSERVATIONS:

	Time	Turbidity	Color	ORP mV/cm	pH	Temp.	Conduct	SWL
1st Volume:	<u>1033</u>	<u>L</u>	<u>C</u>	<u>222</u>	<u>4.74</u>	<u>11.73</u>	<u>.357</u>	<u>4.19</u>
2nd Volume:	<u>1035</u>	<u>↓</u>	<u>↓</u>	<u>224</u>	<u>4.73</u>	<u>11.65</u>	<u>.355</u>	<u>4.19</u>
3rd Volume:	<u>1037</u>	<u>↓</u>	<u>↓</u>	<u>227</u>	<u>4.72</u>	<u>11.63</u>	<u>.354</u>	<u>4.25</u>
4th Volume:	_____	_____	_____	_____	_____	_____	_____	_____
Addl. Volumes:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: 25 g
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: Banned onsite

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

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>1038 MW-4</u>	<u>1038</u>	<u>6 Vials / 1 Amber</u>	<u>HCl</u>
_____	_____	_____	_____
_____	_____	_____	_____

COMMENTS:

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:

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

SECOR GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 12-19-05 WELL NO. MW-8
 FACILITY NAME: 5028 TEMPERATURE: 20.3 °F or °C
 FIELD PERSONNEL: MO WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 83.83 FT. or IN.
 B. Thickness of Free Product, if present: _____ Inches
 C. Total Depth of well (TD) from top of casing/piezometer: 13 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 1107

OBSERVATIONS:

	Time	Turbidity	Color	CRP Shoen	pH	Temp.	Conduct	SWL
1st Volume:	<u>1112</u>	<u>↓</u>	<u>↓</u>	<u>-15</u>	<u>5.04</u>	<u>10.92</u>	<u>414</u>	<u>4.01</u>
2nd Volume:	<u>1114</u>	<u>↓</u>	<u>↓</u>	<u>-3</u>	<u>5.02</u>	<u>10.87</u>	<u>468</u>	<u>4.06</u>
3rd Volume:	<u>1116</u>	<u>↓</u>	<u>↓</u>	<u>3</u>	<u>5.01</u>	<u>10.80</u>	<u>465</u>	<u>4.08</u>
4th Volume:	_____	_____	_____	_____	_____	_____	_____	_____
Addl. Volumes:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: 259

PURGE WATER STORED/DISPOSED OF WHERE/HOW: Controlled on site

SAMPLES COLLECTED: Depth to Water at time of sample collection: 4.08

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>MW-8</u>	<u>1117</u>	<u>6 vials / 1 AMB</u>	<u>HCl</u>
_____	_____	_____	_____
_____	_____	_____	_____

COMMENTS:

Casing Capacities:
 2-inch hole.....0.16 gal/lin ft.
 4-inch hole.....0.65 gal/lin ft.
 6-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: 12-14-05 WELL NO. MW-7
 FACILITY NAME: 5028 TEMPERATURE: 30.5 °F or °C
 FIELD PERSONNEL: MD WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 2.60 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: 13 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 11:35

OBSERVATIONS:

	Time	Turbidity	Color	OTP Sheen	pH	Temp.	Conduct	SWL
1st Volume:	<u>11:40</u>	<u>↓</u>	<u>↓</u>	<u>134</u>	<u>4.89</u>	<u>9.21</u>	<u>1552</u>	<u>2.60</u>
2nd Volume:	<u>11:42</u>	<u>↓</u>	<u>↓</u>	<u>139</u>	<u>4.88</u>	<u>9.14</u>	<u>1553</u>	<u>2.60</u>
3rd Volume:	<u>11:44</u>	<u>↓</u>	<u>↓</u>	<u>143</u>	<u>4.88</u>	<u>9.21</u>	<u>1553</u>	<u>2.61</u>
4th Volume:	_____	_____	_____	_____	_____	_____	_____	_____
Addl. Volumes:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: 2.25g
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: Barometric on site

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

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>11981 MW-7</u>	<u>11:45</u>	<u>600cc / 1 Amber</u>	<u>HCl</u>
_____	_____	_____	_____
_____	_____	_____	_____

COMMENTS:

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:

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

SECOR GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 12-14-05 WELL NO. MW-3
 FACILITY NAME: 5028 TEMPERATURE: 30.3 °F or °C
 FIELD PERSONNEL: WJ WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 3.61 FT. or IN.
 B. Thickness of Free Product, if present: _____ Inches 12.6 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 : 1300

OBSERVATIONS:

	Time	Turbidity	Color	ORP Shear	pH	Temp.	Conduct	SWL
1st Volume:	<u>1303</u>	<u>L</u>	<u>C</u>	<u>98</u>	<u>5.01</u>	<u>11.83</u>	<u>255</u>	<u>4.11</u>
2nd Volume:	<u>1307</u>	<u>↓</u>	<u>↓</u>	<u>100</u>	<u>4.98</u>	<u>11.66</u>	<u>251</u>	<u>4.17</u>
3rd Volume:	<u>1309</u>	<u>↓</u>	<u>↓</u>	<u>103</u>	<u>4.97</u>	<u>11.65</u>	<u>250</u>	<u>4.23</u>
4th Volume:	_____	_____	_____	_____	_____	_____	_____	_____
Addl. Volumes:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: 250
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: Barrelled onsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 4-23

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>MW-3</u>	<u>1310</u>	<u>6 vials / 1 amber</u>	<u>HCl</u>
_____	_____	_____	_____
_____	_____	_____	_____

COMMENTS:

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

Recharge Calculation at Time of Sample Collection:

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

SECOR GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 12-14-05 WELL NO. MW-2A
 FACILITY NAME: 5028 TEMPERATURE: 30's °F or °C
 FIELD PERSONNEL: MD WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 2.61 FT. or IN.
 B. Thickness of Free Product, if present: _____ Inches 14.4 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. | x feet of water | = | PV (Gal) |
|---------------|--------------|--------------|-----------------|---|----------|
| 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: na Low Flow DURATION: Start: 1330

OBSERVATIONS:

	Time	Turbidity	Color	ORP Screen	pH	Temp.	Conduct.	SWL
1st Volume:	<u>1335</u>	<u>↓</u>	<u>↓</u>	<u>92</u>	<u>4.95</u>	<u>10.84</u>	<u>.555</u>	<u>2.61</u>
2nd Volume:	<u>1337</u>	<u>↓</u>	<u>↓</u>	<u>91</u>	<u>4.96</u>	<u>10.69</u>	<u>.555</u>	<u>2.61</u>
3rd Volume:	<u>1339</u>	<u>↓</u>	<u>↓</u>	<u>93</u>	<u>4.96</u>	<u>10.65</u>	<u>.555</u>	<u>2.61</u>
4th Volume:	_____	_____	_____	_____	_____	_____	_____	_____
Addl. Volumes:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: 25g
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: Barrel onsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 2.61

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>MW-2A</u>	<u>1340</u>	<u>6 vials / 1 Amber</u>	<u>HCl</u>
_____	_____	_____	_____
_____	_____	_____	_____

COMMENTS:

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:

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: 12-11-05 WELL NO: MW-6
 FACILITY NAME: 5026 TEMPERATURE: 30.3 °F or °C
 FIELD PERSONNEL: MD WEATHER: SUNNY

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 3.85 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: 14.9 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: 1402

OBSERVATIONS:

	Time	Turbidity	Color	ORP Sheen	pH	Temp.	Conduct	SWL
1st Volume:	<u>1407</u>	<u>2</u>	<u>0</u>	<u>-94</u>	<u>5.15</u>	<u>12.08</u>	<u>.696</u>	<u>4.07</u>
2nd Volume:	<u>1409</u>	<u>↓</u>	<u>↓</u>	<u>-94</u>	<u>5.11</u>	<u>12.00</u>	<u>.436</u>	<u>4.17</u>
3rd Volume:	<u>1411</u>	<u>↓</u>	<u>↓</u>	<u>-95</u>	<u>5.10</u>	<u>11.88</u>	<u>.397</u>	<u>4.21</u>
4th Volume:	_____	_____	_____	_____	_____	_____	_____	_____
Addl. Volumes:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: .256
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: Barrelled onsite

SAMPLES COLLECTED: Depth to Water at time of sample collection: 4.21

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>MW-6</u>	<u>1412</u>	<u>6 Vials / 1 Amber</u>	<u>HCl</u>
_____	_____	_____	_____
_____	_____	_____	_____

COMMENTS:

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

Recharge Calculation at Time of Sample Collection:

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

[illegible]

ConocoPhillips Analysis Request/Chain of Custody



002270

For Lancaster Laboratories use only
 Acct. #: _____ Group #: _____ Sample #: _____
 SCR#: 22903

Site #: 255-26 WNO #: 0110-13-11
 Site Address: 100 N. 1st
 ConocoPhillips PM: 1000 1000 Company Code: SEC
 Core Work Order #: 1000 1000 Total Lab Budget: _____
 Consultant/Office: _____
 Consultant Prj. Mgr: _____
 Consultant Phone #: _____ Fax #: _____
 Sampler: _____

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

Preservation Codes

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix		Analyses Requested												Remarks
					Potable	NPDES	Soil	Water	Oil	Air	1	2	3	4	5	6	7	8	
100-01	12-1	12:00																	
100-02	12-1	12:00																	
100-03	12-1	12:00																	
100-04	12-1	12:00																	
100-05	12-1	12:00																	
100-06	12-1	12:00																	
100-07	12-1	12:00																	
100-08	12-1	12:00																	
100-09	12-1	12:00																	
100-10	12-1	12:00																	
100-11	12-1	12:00																	
100-12	12-1	12:00																	
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100-97	12-1	12:00																	
100-98	12-1	12:00																	
100-99	12-1	12:00																	
100-100	12-1	12:00																	

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: <u>[Signature]</u>	Date: <u>12-1-05</u>	Time: <u>1433</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: <u>[Signature]</u>	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:			Temperature Upon Receipt _____ C°		
UPS _____ FedEx _____ Other _____					