

Release #1855
UNOCAL # 5028
Blaine



DATE: September 6, 2006

U8T # 8472

GROUNDWATER MONITORING REPORT

Site No.: 255028 Address: 247 D Street, Blaine, Washington
ConocoPhillips Site Manager: Jim Trotter
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.01344.04

WORK PERFORMED THIS QUARTER(S) [2nd - 2006]:

- On June 27, 2006 SECOR personnel monitored six (MW-1 through MW-4, MW-7, and MW-8) and purged and sampled five (MW-2A through MW-4, MW-7, and 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. MW-6 was not monitored because it could not be located due to an overgrowth of vegetation in the surrounding area.
- 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 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 [3rd - 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:	Quarterly	(3/06,6/06,9/06,12/06)
Depth to Groundwater:	3.1 ft (MW-3)	(Measured Feet Below
	to 4.65 ft (MW-8)	Top of Well Casing)
Groundwater Gradient:	Southwest	(Inferred Flow Direction)
	0.06 feet per foot.	(Approximate Magnitude)
Maximum TPH-G Concentrations:	None Detected	(ppb / well ID)
Maximum TPH-D Concentrations:	None Detected	
Maximum TPH-O Concentrations:	None Detected	
Maximum Benzene Concentration:	0.5 µg/L (MW-7)	
Maximum TCE Concentration:	190 µg/L (MW-7)	
Maximum 1,2-DCA Concentration:	230 µg/L (MW-7)	
Maximum Vinyl Chloride Concentration:	18 µg/L (MW-7)	
Measurable Free Product Detected:	No	(Yes - ID well(s)/No)

RECEIVED

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JAN 03 2007

DEPT OF ECOLOGY

Free Product Recovered This Quarter:	None	(Gallons)
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 June 28, 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.
- Gasoline range hydrocarbons (TPH-g) were not detected at concentrations greater than the laboratory reporting limits (RLs) in any of the 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 not detected at concentrations greater than the RLs in any of the groundwater samples collected this quarter.
- Methyl Tertiary-Butyl Ether (MTBE) was detected at a concentration greater than the Model Toxics Control Act Method A cleanup levels for groundwater (MTCA A) in the groundwater sample collected from MW-8 at 13 micrograms per liter ($\mu\text{g/L}$). MTBE was detected at concentrations greater than the RLs but less than MTCA A in the groundwater samples collected from MW-3 and MW-7 at 1.3 $\mu\text{g/L}$ and 4.0 $\mu\text{g/L}$, respectively.
- Benzene was detected at concentrations greater than the RLs but less than MTCA A in the groundwater sample collected from MW-7 at 0.5 $\mu\text{g/L}$. Benzene was not detected at concentrations greater than the RLs in any other groundwater samples collected this quarter.
- Toluene was not detected at concentrations greater than the RLs in any of the groundwater samples collected this quarter.
- Ethylbenzene was not detected at concentrations greater than the RLs in any of the groundwater samples collected this quarter.
- Total xylenes were not detected at concentrations greater than the RLs in any of the groundwater samples collected this quarter.
- Trichloroethene (TCE) was detected at concentrations greater than MTCA A in the groundwater sample collected from MW-7 at 190 $\mu\text{g/L}$. TCE was detected at concentrations greater than the RLs but less than MTCA A in the groundwater sample collected from MW-8 at 2 $\mu\text{g/L}$. TCE was not detected at concentrations greater than the RLs in any other groundwater samples collected this quarter.
- 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 15 $\mu\text{g/L}$, 230 $\mu\text{g/L}$, and 11 $\mu\text{g/L}$, respectively. No cleanup level is currently established for 1,2-DCE under MTCA A. 1,2-DCE was not detected at concentrations greater than the RLs in any other groundwater samples collected this quarter.

- Vinyl Chloride (VC) was detected at concentrations greater than MTCA A in the groundwater samples collected from MW-7 and MW-8 at 18 µg/L and 1 µg/L, respectively. VC was not detected at concentrations greater than the RLS in any other groundwater samples collected this quarter.

ATTACHMENTS:

Figure 1: Site Location Map

Figure 2: Site Plan with Groundwater Elevations (6/27/06)

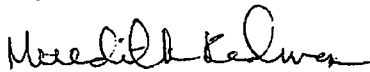
Figure 3: Site Plan with Analytical Results (9/15/06 – 6/27/06)

Table 1: Summary of Groundwater Elevations and Sample Analytical Results

Attachment A: Laboratory Analytical Report and Chain-of-Custody Record

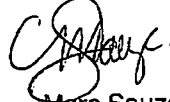
Attachment B: SECOR Monitoring Well Gauging, Purging and Sampling Procedures; Groundwater Monitoring Field Data Records

Prepared By:



Meredith Redmon
Project Scientist

Reviewed By:

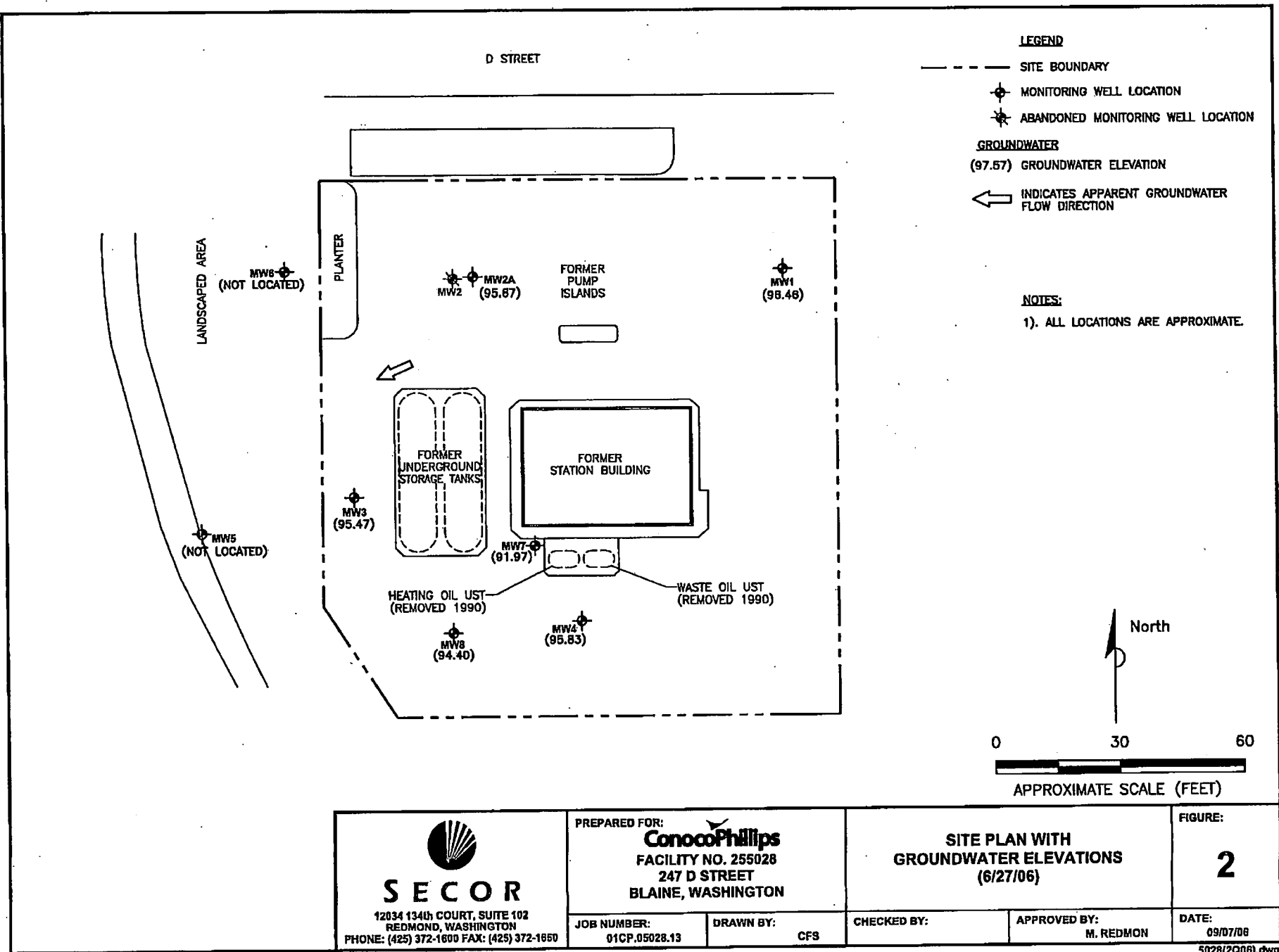


Marc Sauze, P.E.
Senior Project Engineer

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

MR/MS

FIGURES



 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 PLAN WITH GROUNDWATER ELEVATIONS (6/27/06)		FIGURE: 2
JOB NUMBER: 01CP.05028.13	DRAWN BY: CFS	CHECKED BY:	APPROVED BY: M. REDMON	DATE: 09/07/08

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5028(2Q08).dwg

LEGEND

--- SITE BOUNDARY

◆ MONITORING WELL LOCATION

✱ ABANDONED MONITORING WELL LOCATION

ANALYTES

TPH_g TOTAL PETROLEUM
HYDROCARBONS GASOLINE

TPH_d TOTAL PETROLEUM
HYDROCARBONS DIESEL

TPH_o 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	9/15/05	12/14/05	3/7/06	6/27/06
TPH _g	<48	69	<48	---
TPH _d	<74	<75	<75	---
TPH _o	<93	200	<94	---
B	<0.5	<0.2	<0.2	---
T	<0.5	1.6	<0.2	---
E	<0.5	0.5	<0.2	---
X	<1.5	<0.6	<0.6	---
1,2-DCE	<0.8	<0.8	<0.8	---
CA	<1	<1	<1	---
1,1-DCA	<1	<1	<1	---
1,2-DCA	<1	<1	<1	---
VC	<1	<1	<1	---
MTBE	---	<5.0	6.9	---
TCE	<1	<1	<1	---

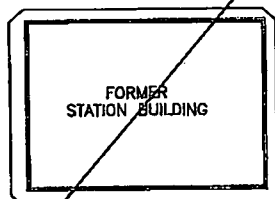
MW2A	9/15/05	12/14/05	3/7/06	6/27/06
TPH _g	<48	<48	<48	<48
TPH _d	<180	<75	<75	<75
TPH _o	<200	<94	<95	<94
B	<0.5	<0.2	<0.2	<0.2
T	<0.5	<0.2	<0.2	<0.2
E	<0.5	<0.2	<0.2	<0.2
X	<1.5	<0.6	<0.6	<0.6
1,2-DCE	<0.8	<0.8	<0.8	<0.8
CA	<1	<1	<1	<1
1,1-DCA	<1	<1	<0.8	<0.8
1,2-DCA	<1	<1	<1	<1
VC	<1	<1	<1	<1
MTBE	---	0.4	<0.3	<0.3
TCE	<1	<1	<1	<1

MW3	9/15/05	12/14/05	3/7/06	6/27/06
TPH _g	<48	<48	<48	<48
TPH _d	<75	<75	<75	<75
TPH _o	<94	<95	<94	<94
B	0.7	0.3	<0.2	<0.2
T	<0.5	<0.2	<0.2	<0.2
E	<0.5	<0.2	<0.2	<0.2
X	<1.5	<0.6	<0.6	<0.6
1,2-DCE	<0.8	<0.8	<0.8	<0.8
CA	<1	<1	<1	<1
1,1-DCA	<1	<1	<0.8	<0.8
1,2-DCA	<1	<1	<1	<1
VC	<1	<1	<1	<1
MTBE	---	8.2	6.5	1.3
TCE	<1	<1	<1	<1

MW7	9/15/05	12/14/05	3/7/06	6/27/06
TPH _g	<48	<48	<48	<48
TPH _d	<75	<75	<75	<75
TPH _o	<94	<94	<94	<93
B	2.6	<0.2	<0.2	0.5
T	<0.5	<0.2	<0.2	<0.2
E	<0.5	<0.2	<0.2	<0.2
X	<1.5	<0.6	<0.6	<0.6
1,2-DCE	460	3	7	230
CA	<1	<1	<1	<1
1,1-DCA	<1	<1	<0.8	2
1,2-DCA	<1	<1	<1	<1
VC	34	<1	<1	18
MTBE	---	<0.3	<0.3	4.0
TCE	230	2	4	180

MW4	9/15/05	12/14/05	3/7/06	6/27/06
TPH _g	<48	<48	<48	<48
TPH _d	<75	<75	<75	<75
TPH _o	<94	<94	<93	<94
B	<0.5	<0.2	<0.2	<0.2
T	<0.5	<0.2	<0.2	<0.2
E	<0.5	<0.2	<0.2	<0.2
X	<1.5	<0.6	<0.6	<0.6
1,2-DCE	30	14	14	15
CA	<1	<1	<1	<1
1,1-DCA	<1	<1	<1	<1
1,2-DCA	<1	<1	<1	<1
VC	3	<1	<1	<1
MTBE	---	<0.3	<0.3	<0.3
TCE	<1	<1	<1	<1

MW8	9/15/05	12/14/05	3/7/06	6/27/06
TPH _g	<48	<48	<48	<48
TPH _d	<75	<75	<75	<75
TPH _o	<94	<94	<94	<95
B	0.6	<0.2	0.4	<0.2
T	<0.5	<0.2	<0.2	<0.2
E	<0.5	<0.2	<0.2	<0.2
X	<1.5	<0.6	<0.6	<0.6
1,2-DCE	72	32	18	11
CA	<1	<1	<1	<1
1,1-DCA	<1	<1	<0.8	<0.8
1,2-DCA	<1	<1	<1	<1
VC	9	4	3	1
MTBE	---	40	26	13
TCE	12	5	3	2



HEATING OIL UST
(REMOVED 1990)

WASTE OIL UST
(REMOVED 1990)



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

JOB NUMBER:
01CP.05028.13

DRAWN BY:
CFS

CHECKED BY:

APPROVED BY:
M. REDMON

DATE:
09/07/06

SITE PLAN
WITH ANALYTICAL RESULTS
(9/15/05-6/27/06)

FIGURE:

3

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5028(2Q06)

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
 ConocoPhillips Facility No. 255028
 247 D 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	09/16/05	6.22	94.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	12/14/05	3.47	98.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	3/7/06	2.85	97.57	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	8/27/06	3.96	96.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MW2 98.49	Destroyed																
MW2A 99.17	09/16/05	4.76	94.41	<48	<160	<200	<0.5	<0.5	<0.5	<1.5	<1	<0.8	<1	<1	<1	<1	—
	12/14/05	2.61	98.56	<48	<75	<95	<0.2	<0.2	<0.2	<0.6	<1	<0.8	<1	<1	<1	<1	0.4
	03/07/06	2.68	98.49	<48	<78	<95	<0.2	<0.2	<0.2	<0.6	<1	<0.8	<1	<0.8	<1	<1	<0.3
	06/27/06	3.5	95.67	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<1	<0.8	<1	<0.8	<1	<1	<0.3
MW3 98.57	09/16/05	5.87	92.70	<48	<75	<94	0.7	<0.6	<0.5	<1.5	<1	<0.8	<1	<1	<1	<1	—
	12/14/05	3.61	94.98	<48	<78	<95	0.3	<0.2	<0.2	<0.6	<1	<0.8	<1	<1	<1	<1	8.2
	03/07/06	2.97	95.60	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<1	<0.8	<1	<0.8	<1	<1	6.5
	06/27/06	3.1	95.47	<48	<76	<94	<0.2	<0.2	<0.2	<0.6	<1	<0.8	<1	<0.8	<1	<1	1.3
MW4 99.53	09/16/05	6.67	92.66	<48	<75	<94	<0.5	<0.6	<0.5	<1.5	<1	30	<1	<1	<1	3	—
	12/14/05	3.56	95.97	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<1	14	<1	<1	<1	<1	<0.3
	03/07/06	3.68	95.87	<48	<75	<93	<0.2	<0.2	<0.2	<0.6	<1	14	<1	<1	<1	<1	<0.3
	06/27/06	3.7	95.83	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<1	15	<1	<1	<1	<1	<0.3
MW5 92.98	08/12/99	Unable to Locate Since 8/12/99															
MW6 97.64	09/16/05	5.50	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	93.99	69	<75	200	<0.2	1.6	0.5	<0.6	<1	<0.8	<1	<1	<1	<1	<5.0*
	03/07/06	4.16	93.68	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<1	<0.8	<1	<1	<1	<1	6.9
	06/27/06	Unable to locate															
MW7 95.37	9/16/2005 ⁽¹⁾	4.82	90.55	<48	<75	<94	2.6	<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	<0.6	2	3	<1	<1	<1	<1	<0.3
	03/07/06	2.83	92.54	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	4	7	<1	<0.8	<1	<1	<0.3
	06/27/06	3.40	91.97	<48	<75	<93	0.5	<0.2	<0.2	<0.6	190	230	<1	2	<1	16	4.0
MW8 99.05	09/16/05	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	<0.6	5	32	<1	<1	<1	4	40*
	03/07/06	3.88	95.19	<48	<75	<94	0.4	<0.2	<0.2	<0.6	3	19	<1	<0.8	<1	3	26
	06/27/06	4.85	94.40	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	2	11	<1	<0.8	<1	1	13
MTCA Method A Cleanup Level				1000/800*	500	500	5	1000	700	1000	6	NA	NA	NA	5	0.2	20

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 = Trichloroethene; 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 6/8/05. 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.

* 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

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

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



Analysis Report

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

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 995267. Samples arrived at the laboratory on Wednesday, June 28, 2006. The PO# for this group is 4506583817 and the release number is TROTTER.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW4 Grab Water Sample	4803084
MW8 Grab Water Sample	4803085
MW3 Grab Water Sample	4803086
MW7 Grab Water Sample	4803087
MW2A Grab Water Sample	4803088
Trip Blank Water Sample	4803089

1 COPY TO
ELECTRONIC
COPY TO

SECOR International
SECOR International

Attn: Meredith Redmon
Attn: Matt Davis



Analysis Report

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

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

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Robin C. Runkle".

Robin C. Runkle
Senior Specialist



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 4803084

MW4 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 10:16

by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips

1230 West Washington Street

Suite 212

Tempe AZ 85281

MW4BL

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
The GC Volatile analysis was performed from a previously opened vial with headspace.						
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	15.	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



Analysis Report

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Lancaster Laboratories Sample No. WW 4803084

MW4 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 10:16

by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips

1230 West Washington Street

Suite 212

Tempe AZ 85281

MW4BL

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution Factor
			Result	Method Detection Limit		
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

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/29/2006 19:31	Matthew B Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/30/2006 11:12	Steven A Skiles	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/29/2006 14:16	Steven A Skiles	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	06/29/2006 19:51	Jason M Long	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	06/29/2006 19:51	Jason M Long	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 14:16	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/29/2006 19:51	Jason M Long	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	06/29/2006 08:30	Mariam G Attalla	1



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Lancaster Laboratories Sample No. WW 4803085

MW8 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 10:47

by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips

1230 West Washington Street

Suite 212

Tempe AZ 85281

MW8BL

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	13.	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	1.	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	11.	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	2.	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 4803085

MW8 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 10:47

by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips

1230 West Washington Street

Suite 212

Tempe AZ 85281

MW8BL

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

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/29/2006 19:50	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/30/2006 09:14	Steven A Skiles	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/29/2006 14:49	Steven A Skiles	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	06/29/2006 21:28	Jason M Long	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	06/29/2006 21:28	Jason M Long	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 14:49	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/29/2006 21:28	Jason M Long	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	06/29/2006 08:30	Mariam G Attalla	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4803086

MW3 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 11:17 by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips

1230 West Washington Street

Suite 212

Tempe AZ 85281

MW3BL

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	1.3	0.3	ug/l	1
08274	TPH by NWTPH-Gx waters					
01646	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 4803086

MW3 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 11:17

by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips

1230 West Washington Street

Suite 212

Tempe AZ 85281

MW3BL

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

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/29/2006 20:10	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/30/2006 09:43	Steven A Skiles	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/29/2006 16:52	Steven A Skiles	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	06/29/2006 21:52	Jason M Long	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	06/29/2006 21:52	Jason M Long	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 16:52	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/29/2006 21:52	Jason M Long	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx	1	06/29/2006 08:30	Mariam G Attalla	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4803087

MW7 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 11:46 by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips

1230 West Washington Street

Suite 212

Tempe AZ 85281

MW7BL

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.	93.	ug/l	1
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	0.5	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	4.0	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	18.	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	2.	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	2.	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	230.	8.	ug/l	10
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	190.	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	106-90-7	N.D.	0.8	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4803087

MW7 Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 11:46

by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips

1230 West Washington Street

Suite 212

Tempe AZ 85281

MW7BL

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

State of Washington Lab Certification No. C259

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/29/2006 20:29	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/30/2006 10:13	Steven A Skiles	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/29/2006 17:27	Steven A Skiles	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	06/29/2006 22:16	Jason M Long	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	06/29/2006 23:26	Jason M Long	10
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	06/29/2006 22:16	Jason M Long	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 17:27	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/29/2006 22:16	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	06/29/2006 23:26	Jason M Long	10
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	06/29/2006 08:30	Mariam G Attalla	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4803088

MW2A Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 12:30 by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

M2ABL

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-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 4803088

MW2A Grab Water Sample

Site# 1344 (255028)

247 D St-Blaine, WA

Collected: 06/27/2006 12:30

by TP

Account Number: 11817

Submitted: 06/28/2006 09:35

Reported: 07/14/2006 at 15:42

Discard: 08/14/2006

ConocoPhillips

1230 West Washington Street

Suite 212

Tempe AZ 85281

M2ABL

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

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	06/29/2006 20:48	Matthew E Barton	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/30/2006 10:43	Steven A Skiles	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/29/2006 17:59	Steven A Skiles	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	06/29/2006 22:39	Jason M Long	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	06/29/2006 22:39	Jason M Long	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 17:59	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/29/2006 22:39	Jason M Long	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	06/29/2006 08:30	Mariam G Attalla	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4803089

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

Account Number: 11817

Submitted: 06/28/2006 09:35
Reported: 07/14/2006 at 15:42
Discard: 08/14/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

TB4BL

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
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
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



Analysis Report

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Lancaster Laboratories Sample No. WW 4803089

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

Account Number: 11817

Submitted: 06/28/2006 09:35
Reported: 07/14/2006 at 15:42
Discard: 08/14/2006

ConocoPhillips
1230 West Washington Street
Suite 212
Tempe AZ 85281

TB4BL

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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

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
08214	BTEX, MTBE (8021)	SW-846 8021B	1	06/30/2006 08:44	Steven A Skiles	1
08274	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	06/29/2006 13:43	Steven A Skiles	1
05382	Volatiles by 8260 Full Scan	SW-846 8260B	1	06/29/2006 23:02	Jason M Long	1
08202	Volatiles 8260 full scan cont	SW-846 8260B	1	06/29/2006 23:02	Jason M Long	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/29/2006 13:43	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/29/2006 23:02	Jason M Long	1



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/14/06 at 03:42 PM

Group Number: 995267

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: 061790024A	Sample number(s): 4803084-4803088							
Diesel Range Organics	N.D.	0.080	mg/l	81	80	51-113	2	20
Heavy Range Organics	N.D.	0.10	mg/l					
Batch number: 06180A07A	Sample number(s): 4803084-4803089							
TPH by NWTPH-Gx waters	N.D.	48.	ug/l	82	87	70-130	5	30
Batch number: 06181A15A	Sample number(s): 4803084-4803089							
Benzene	N.D.	0.2	ug/l	90	90	86-119	0	30
Toluene	N.D.	0.2	ug/l	94	94	82-119	0	30
Ethylbenzene	N.D.	0.2	ug/l	95	96	81-119	1	30
Total Xylenes	N.D.	0.6	ug/l	98	98	82-120	1	30
Methyl tert-Butyl Ether	N.D.	0.3	ug/l	93	94	82-124	1	30
Batch number: W061802AA	Sample number(s): 4803084-4803089							
Chloromethane	N.D.	1.	ug/l			56-134		
Vinyl Chloride	N.D.	1.	ug/l			62-123		
Bromomethane	N.D.	1.	ug/l			47-129		
Chloroethane	N.D.	1.	ug/l			57-125		
Trichlorofluoromethane	N.D.	2.	ug/l			67-136		
1,1-Dichloroethene	N.D.	0.8	ug/l			79-130		
Methylene Chloride	N.D.	2.	ug/l			85-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l			83-117		
1,1-Dichloroethane	N.D.	1.	ug/l			83-127		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l			84-117		
Chloroform	N.D.	0.8	ug/l			86-124		
1,1,1-Trichloroethane	N.D.	0.8	ug/l			83-127		
Carbon Tetrachloride	N.D.	1.	ug/l			77-130		
1,2-Dichloroethane	N.D.	1.	ug/l			77-132		
Trichloroethene	N.D.	1.	ug/l			87-117		
1,2-Dichloropropane	N.D.	1.	ug/l			80-117		
Bromodichloromethane	N.D.	1.	ug/l			83-121		
1,1,2-Trichloroethane	N.D.	0.8	ug/l			86-113		
Tetrachloroethene	N.D.	0.8	ug/l			74-125		
Dibromochloromethane	N.D.	1.	ug/l			78-119		
Chlorobenzene	N.D.	0.8	ug/l			85-115		
Bromoform	N.D.	1.	ug/l			69-118		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l			72-119		
1,3-Dichlorobenzene	N.D.	1.	ug/l			91-114		
1,4-Dichlorobenzene	N.D.	1.	ug/l			84-116		
1,2-Dichlorobenzene	N.D.	1.	ug/l			81-112		
trans-1,3-Dichloropropene	N.D.	1.	ug/l			79-114		
cis-1,3-Dichloropropene	N.D.	1.	ug/l			78-114		
Freon 113	N.D.	2.	ug/l			64-134		

*- 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
Reported: 07/14/06 at 03:42 PM

Group Number: 995267

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 06180A07A TPH by NWTPH-Gx waters	Sample number(s): 4803084-4803089 UNSPK: 4803084 108 63-154								
Batch number: 06181A15A	Sample number(s): 4803084-4803089 UNSPK: P803838								
Benzene	101		75-131						
Toluene	104		78-129						
Ethylbenzene	105		75-133						
Total Xylenes	108		84-131						
Methyl tert-Butyl Ether	101		70-134						
Batch number: W061802AA	Sample number(s): 4803084-4803089 UNSPK: 4803084								
Chloromethane	71	69	59-148	3	30				
Vinyl Chloride	85	84	67-142	0	30				
Bromomethane	86	87	52-141	1	30				
Chloroethane	79	79	63-142	0	30				
Trichlorofluoromethane	127	124	75-163	2	30				
1,1-Dichloroethene	115	115	87-145	0	30				
Methylene Chloride	98	96	79-133	2	30				
trans-1,2-Dichloroethene	109	108	82-133	0	30				
1,1-Dichloroethane	96	96	85-135	0	30				
cis-1,2-Dichloroethene	119	108	83-126	6	30				
Chloroform	106	105	82-131	0	30				
1,1,1-Trichloroethane	119	118	81-142	1	30				
Carbon Tetrachloride	124	124	79-155	0	30				
1,2-Dichloroethane	105	104	70-143	1	30				
Trichloroethene	114	114	82-136	0	30				
1,2-Dichloropropane	90	90	83-129	0	30				
Bromodichloromethane	104	103	80-129	1	30				
1,1,2-Trichloroethane	96	98	77-125	1	30				
Tetrachloroethene	115	113	78-133	2	30				
Dibromochloromethane	103	105	82-119	2	30				
Chlorobenzene	102	103	83-120	0	30				
Bromoform	104	106	64-119	2	30				
1,1,2,2-Tetrachloroethane	88	87	69-128	1	30				
1,3-Dichlorobenzene	101	100	79-123	2	30				
1,4-Dichlorobenzene	106	102	81-122	4	30				
1,2-Dichlorobenzene	104	102	82-117	1	30				
trans-1,3-Dichloropropene	92	92	77-123	0	30				
cis-1,3-Dichloropropene	96	93	80-126	3	30				
Freon 113	128	128	74-129	1	30				

Surrogate Quality Control

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

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 061790024A
Orthoterphenyl

*- 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
Reported: 07/14/06 at 03:42 PM

Group Number: 995267

Surrogate Quality Control

4803084	97
4803085	97
4803086	91
4803087	92
4803088	93
Blank	91
LCS	111
LCSD	115

Limits: 50-150

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 06180A07A
Trifluorotoluene-P

4803084	87
4803085	88
4803086	87
4803087	91
4803088	88
4803089	84
Blank	86
LCS	88
LCSD	89
MS	94

Limits: 63-135

Analysis Name: BTEX, MTBE (8021)
Batch number: 06181A15A
Trifluorotoluene-P

4803084	104
4803085	104
4803086	104
4803087	106
4803088	105
4803089	104
Blank	104
LCS	102
LCSD	103
MS	103

Limits: 69-129

Analysis Name: EPA SW846/8260 (water)
Batch number: W061802AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4803084	105	96	90	90
4803085	104	95	90	89
4803086	105	96	90	89
4803087	105	97	90	89
4803088	106	95	89	89
4803089	107	95	89	88
Blank	105	96	89	89
LCS	106	98	91	95

*- 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
Reported: 07/14/06 at 03:42 PM

Group Number: 995267

Surrogate Quality Control

MS	104	99	92	96
MSD	103	98	92	96
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



04108

PO# 450 658 3817

Acct #: 11817 For Lancaster Laboratories use only
Group # 995267 Sample #: 4803084-89

SCR#: 30090

Site #: 255028 VNO #:
Site Address: Blaine, WA
ConocoPhillips PM: Company Code:
Core Work Order#: Total Lab Budget:
Consultant/Office: Jim Trotter
Consultant Prj. Mgr: Marc Sauze
Consultant Phone #: 425 372-1600 Fax #: 1650
Sampler: Tammy Parise

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

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

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Matrix	Preservation Codes	Remarks
MW4	6/27	10:16									
MW8	6/27	10:47									
MW3	6/27	11:17									
MW7	6/27	11:46									
MW 2A	6/27	12:30									
Trip blank											

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

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

44

C°

Lancaster Laboratories Explanation of Symbols and Abbreviations

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

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

U.S. EPA data qualifiers:

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

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

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

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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: 6/27/2006

Client: ConocoPhillips	Site No: 5028	Project No: 01CP.05028.13
Scope of Work: <u>x</u> Quarter Monitoring/Sampling W/O #:		
Describe Daily Activities:		
Gauged <u>6</u> monitoring wells.	Number of drums left on site: <u>0</u>	
Purged <u> </u> monitoring wells.		
Sampled <u>5</u> monitoring wells.		
<u>Field Notes:</u> 8:45 Set up Decon, PPE, ^{pinch} * Do not dump H₂O into barrel, contains HVOCS, bring bucket w/ lid. 9:00 locate, loosen + gauge wells 10:16 Sample MW 4 10:47 Sample MW 8 11:17 Sample MW 3 11:46 Sample MW 7 - needs new lock Gauge MW 1 only, no sampling (area overgrown) 12:30 Sample MW 2A lock (cut old one next time + replace)		
Arrived on Site: <u>8:45</u>		Departed Site: <u>12:15</u>
Decontamination Procedures: 3-Stage (Alconox Wash, Tap Water Rinse, & Distilled Water Rinse)		
Daily Health and Safety Log Completed?: <u>YES</u>	Utility Locations Checked?: <u>N/A</u>	
Important Conversations: <u>NO</u>		
Important Changes in Scope of Work: <u>NO</u>		
Weather Conditions: <u>Sunny 75-85</u>	Subcontractors On Site: <u>NO</u>	
SECOR Personnel On Site: <u>Tammy Parise</u>		
Signed: <u>Tammy Parise</u>		Date: <u>6/27/06</u>

SECOR GROUNDWATER SAMPLING FIELD DATA SHEET

SECOR PN: _____ DATE: 6/27/2006 WELL NO. MW-2A
 FACILITY NAME: 255028 TEMPERATURE: 80 °F or °C
 FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 3.50 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: 12:18 END: 12:30

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct	SWL
1st Volume:	<u>12:23</u>	<u>L</u>	<u>C</u>	<u>104</u>	<u>7.14</u>	<u>20.42</u>	<u>0.94</u>	<u>3.40</u>
2nd Volume:	<u>12:26</u>	<u>↓</u>	<u>↓</u>	<u>94</u>	<u>6.90</u>	<u>20.68</u>	<u>0.90</u>	<u>3.38</u>
3rd Volume:	<u>12:29</u>	<u>↓</u>	<u>↓</u>	<u>97</u>	<u>6.87</u>	<u>20.56</u>	<u>0.77</u>	<u>3.38</u>
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: 3.38

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>MW-2A</u>	<u>12:30</u>	<u>6 VOLS / 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:

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: 6/27/2006 WELL NO. MW-3

FACILITY NAME: 255028 TEMPERATURE: ~75 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 3.10 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: 11:05 END: 11:17

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct	SWL
1st Volume:	<u>11:10</u>	<u>L</u>	<u>C</u>	<u>57</u>	<u>6.87</u>	<u>17.74</u>	<u>0.352</u>	<u>3.80</u>
2nd Volume:	<u>11:13</u>	<u>↓</u>	<u>↓</u>	<u>66</u>	<u>6.80</u>	<u>18.61</u>	<u>0.343</u>	<u>3.85</u>
3rd Volume:	<u>11:16</u>	<u>↓</u>	<u>↓</u>	<u>73</u>	<u>6.64</u>	<u>19.56</u>	<u>0.340</u>	<u>3.90</u>
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: 3.90

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>MW-3</u>	<u>11:17</u>	<u>6 VOAS / 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: 6/27/2006 WELL NO. MW-4

FACILITY NAME: 255028 TEMPERATURE: 70 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 3.70 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: 10:04 END: 10:16

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct	SWL
1st Volume:	10:04	L	C	130	6.56	17.61	0.548	4.60
2nd Volume:	10:12	↓	↓	136	6.59	18.04	0.535	4.56
3rd Volume:	10:15	↓	↓	143	6.32	19.10	0.509	4.56
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: 4.56

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
MW-4	10:16	6 vials / 1 amber	HCL

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: 6/27/2006 WELL NO. MW- 7

FACILITY NAME: 255028 TEMPERATURE: 78-80 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 3.40 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: 11:34 END: 11:40

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp	Conduct	SWL
1st Volume:	<u>11:39</u>	<u>L</u>	<u>C</u>	<u>40</u>	<u>6.85</u>	<u>19.82</u>	<u>1.18</u>	<u>3.40</u>
2nd Volume:	<u>11:42</u>	<u>↓</u>	<u>↓</u>	<u>27</u>	<u>6.99</u>	<u>19.90</u>	<u>1.18</u>	<u>3.40</u>
3rd Volume:	<u>11:45</u>	<u>↓</u>	<u>↓</u>	<u>35</u>	<u>7.15</u>	<u>20.02</u>	<u>1.18</u>	<u>3.40</u>
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: 3.40

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>MW- 7</u>	<u>11:46</u>	<u>6 vials / 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: 6/27/2006 WELL NO. MW-8
 FACILITY NAME: 255028 TEMPERATURE: 70 °F or °C
 FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 4.65 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: 10:35 END: 10:47

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct	SWL
1st Volume:	<u>10:40</u>	<u>L</u>	<u>C</u>	<u>-47</u>	<u>6.82</u>	<u>18.54</u>	<u>0.531</u>	<u>4.81</u>
2nd Volume:	<u>10:43</u>	<u>↓</u>	<u>↓</u>	<u>-37</u>	<u>6.82</u>	<u>18.95</u>	<u>0.516</u>	<u>4.80</u>
3rd Volume:	<u>10:46</u>	<u>↓</u>	<u>↓</u>	<u>-29</u>	<u>6.73</u>	<u>19.12</u>	<u>0.511</u>	<u>4.81</u>
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: 4.81

Sample Number(s)	Time	Size/Number of Container(s)	Preservative
<u>MW-8</u>	<u>10:47</u>	<u>60mas / 1 amber</u>	<u>HCC</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: 6/27/2006 WELL NO. MW-1

FACILITY NAME: 255028 TEMPERATURE: 70 °F or °C

FIELD PERSONNEL: Tammy Parise WEATHER: Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 3.96 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: _____ END: _____

OBSERVATIONS:

	Time	Turbidity	Color	ORP	pH	Temp.	Conduct	SWL
1st Volume:	_____	_____	_____	_____	_____	_____	_____	_____
2nd Volume:	_____	_____	_____	_____	_____	_____	_____	_____
3rd Volume:	_____	_____	_____	_____	_____	_____	_____	_____
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: _____

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

COMMENTS:

Barge only

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:

**Lancaster
Laboratories**

PO# 450 658 3817

Acct. #:

Group #

Sample #: _____

SCR#: 70090

Site #: <u>255028</u>						WNO #:									
Site Address: <u>Blairstown, PA</u>															
ConocoPhillips PM:						Company Code:									
Core Work Order#:						Total Lab Budget:									
Consultant/Office: <u>Jim Trotter</u>															
Consultant Prj. Mgr.: <u>Marc Sauze</u>															
Consultant Phone #: <u>425-372-1600</u>						Fax #: <u>x 1650</u>									
Sampler: <u>Tammy Parise</u>															
Sample Identification			Date Collected	Time Collected	Grab	Composite	Soil	Potable ☐	NPDES ☐	Water	Oil	Air	Preservation Codes	Remarks	
<u>MW4</u>			<u>6/27</u>	<u>10:16</u>									H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other		
<u>MW8</u>			<u>6/27</u>	<u>10:47</u>											
<u>MW3</u>			<u>6/27</u>	<u>11:17</u>											
<u>MW7</u>			<u>6/27</u>	<u>11:46</u>											
<u>MW2A</u>			<u>6/27</u>	<u>12:30</u>											
<u>Trip blank</u>															
Turnaround Time Requested In Business Days (TAT) (please circle):												Relinquished by: _____ Date: <u>6/29/06</u> Time: <u>11:27</u>		Received by: _____ Date: _____ Time: _____	
STD. TAT <u>24 hour</u> other _____												Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____	
Reporting Requirements (please circle)												Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____	
NJ Reduced NY ASP Cat. A Raw Data Diskette												Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____	
NY ASP Cat. B Full Type I Other _____												Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____		Temperature Upon Receipt _____ °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.

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