

3R – 467

2010 GWMR

03 / 29 / 2011



GROUNDWATER SAMPLING REPORT

**LOCATION:
CONOCO PHILLIPS
MARCOTTE #1 (HBR) WELL SITE
SECTION 8, TOWNSHIP 31 NORTH, RANGE 10 WEST
SAN JUAN COUNTY, NEW MEXICO**

**CONTRACTED BY:
CONOCO PHILLIPS
MS. GWEN FROST
3401 EAST 30TH STREET
FARMINGTON, NEW MEXICO 87401**

**PROJECT NUMBER 92115-1532
DECEMBER 2010**



March 29, 2011

Project No. 92115-1532

Ms. Gwen Frost
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87401

Phone (505) 326-9549

**RE: DECEMBER 2010 GROUND WATER MONITORING REPORT NEAR THE
MARCOTTE #1 WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Frost,

Attached please find a copy of the *December 2010 Ground Water Monitoring Report* near the Marcotte #1 well site, San Juan County, New Mexico. This report details the groundwater sampling event and conclusions that took place during this event.

We appreciate the opportunity to be of service. If you have any questions or need additional information, please contact our office at (505) 632-0615.

Sincerely,
ENVIROTECH, INC.


Toni McKnight, EIT
Environmental Project Manager
tmcknight@envirotech-inc.com

Enclosure: Ground Water Monitoring Report

Cc: Client File 92115

**DECEMBER 2010 GROUND WATER MONITORING REPORT
CONTRACTED BY CONOCOPHILLIPS
LOCATED NEAR
MARCOTTE #1 (HBR)
SAN JUAN COUNTY, NEW MEXICO**

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INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by ConocoPhillips to perform groundwater sampling activities from monitoring wells near the Marcotte #1 (hBr) well site in Section 8, Township 31N, Range 10W, San Juan County, New Mexico; see enclosed **Figure 1, Vicinity Map**. Three (3) monitoring wells were identified by ConocoPhillips near the Marcotte #1 (hBr) well site from historical data; however, a vicinity map was not provided. Only two (2) of the monitoring wells were located near the Marcotte #1 (hBr) well site; see enclosed **Figure 2, Site Map**. Envirotech, Inc. conducted sampling on December 9, 2010.

SCOPE OF WORK

The scope of work included the sampling of groundwater from two (2) monitoring wells, identified as MW-2 and MW-3, documentation, project management, and report preparation.

GROUNDWATER MONITORING

On December 9, 2010, two (2) monitoring wells (MW-2 and MW-3) were monitored for water levels; see enclosed **Table 1, Water Level Measurements**. Water levels were 35.51 feet below the top of casing for MW-3 and 29.78 feet below the top of casing for MW-2; see enclosed **Figure 3, Ground Water Elevation Map**.

The water in the monitoring wells was purged for at least three (3) well volumes, until conductivity stabilized, or until they bailed as dry. The wells were then allowed to recharge and were sampled. The samples were then transported under chain of custody to Envirotech's Laboratory and analyzed in accordance to New Mexico Water Quality Control Commission (WQCC) NMAC 20.6.2.3102 A and B. Both samples returned results below the regulatory standards with the exception of Total Dissolved Solids (TDS) and chlorides; see enclosed **Table 2, Water Quality Control Commission Regulatory Results**. Laboratory certificates are presented in **Appendix A, Laboratory Analytical Results**.

CONCLUSIONS

Envirotech, Inc. has completed the December 2010 monitoring event for groundwater monitoring wells near the Marcotte #1 (hBr) well site located in Section 8, Township 31N, Range 10W, San Juan County, New Mexico. Both samples returned results below the regulatory standards with the exception of Total Dissolved Solids (TDS) and chlorides.

STATEMENT OF LIMITATIONS

The work and services provided by Envirotech, Inc. were under the guidelines of the NMWQCC. All observations and conclusions provided here are based on the information and current site conditions found during this investigation.

The undersigned has conducted this service at the above referenced site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.

Reviewed by:


Toni McKnight, EIT
Environmental Project Manager
tmcknight@envirotech-inc.com

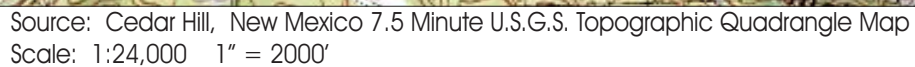

Greg W. Crabtree, PE
Environmental Manager
gcrabtree@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map

Figure 3, Depth to Groundwater Map

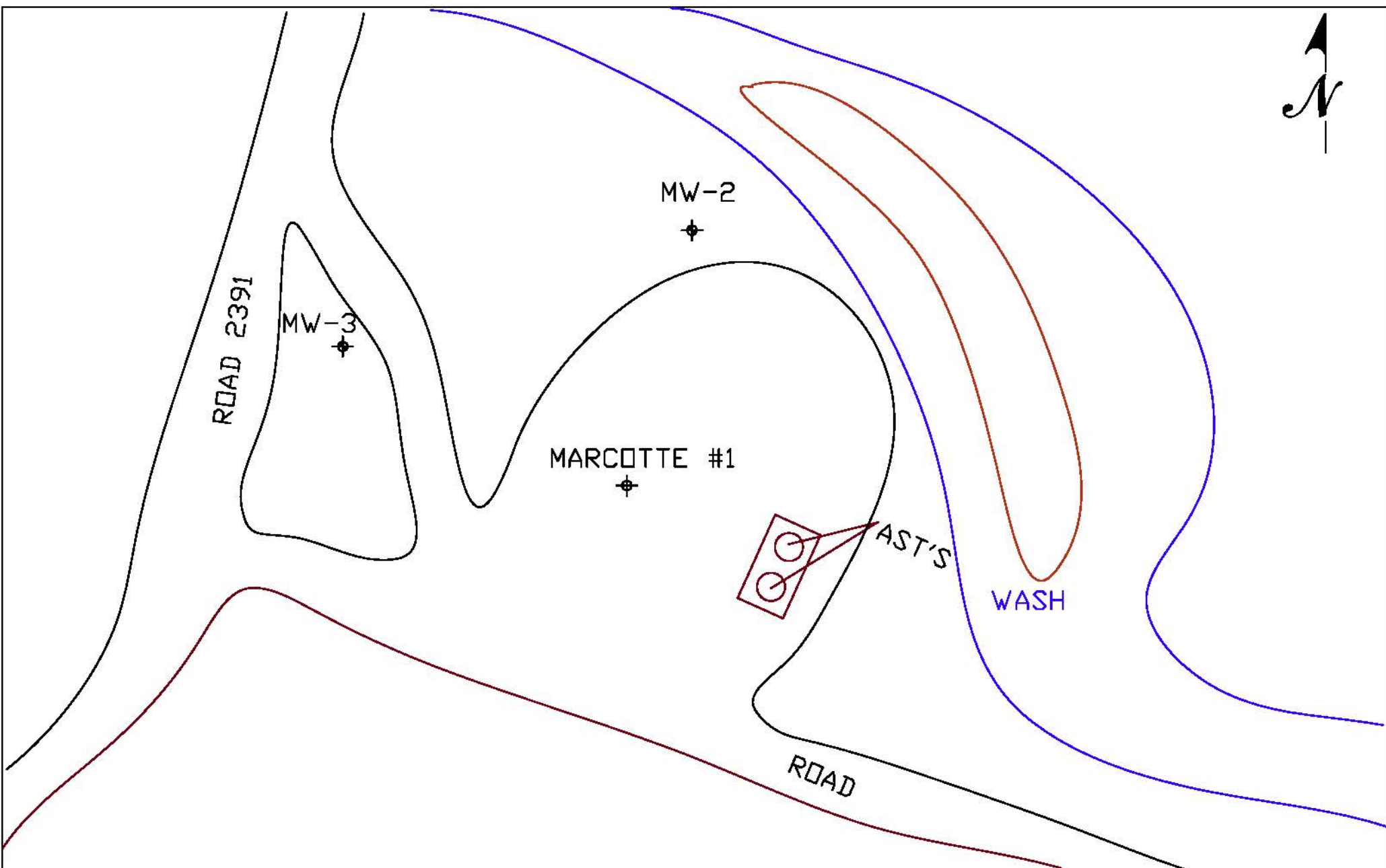


PROJECT No 92115-1532 | Date Drawn: 3/18/11

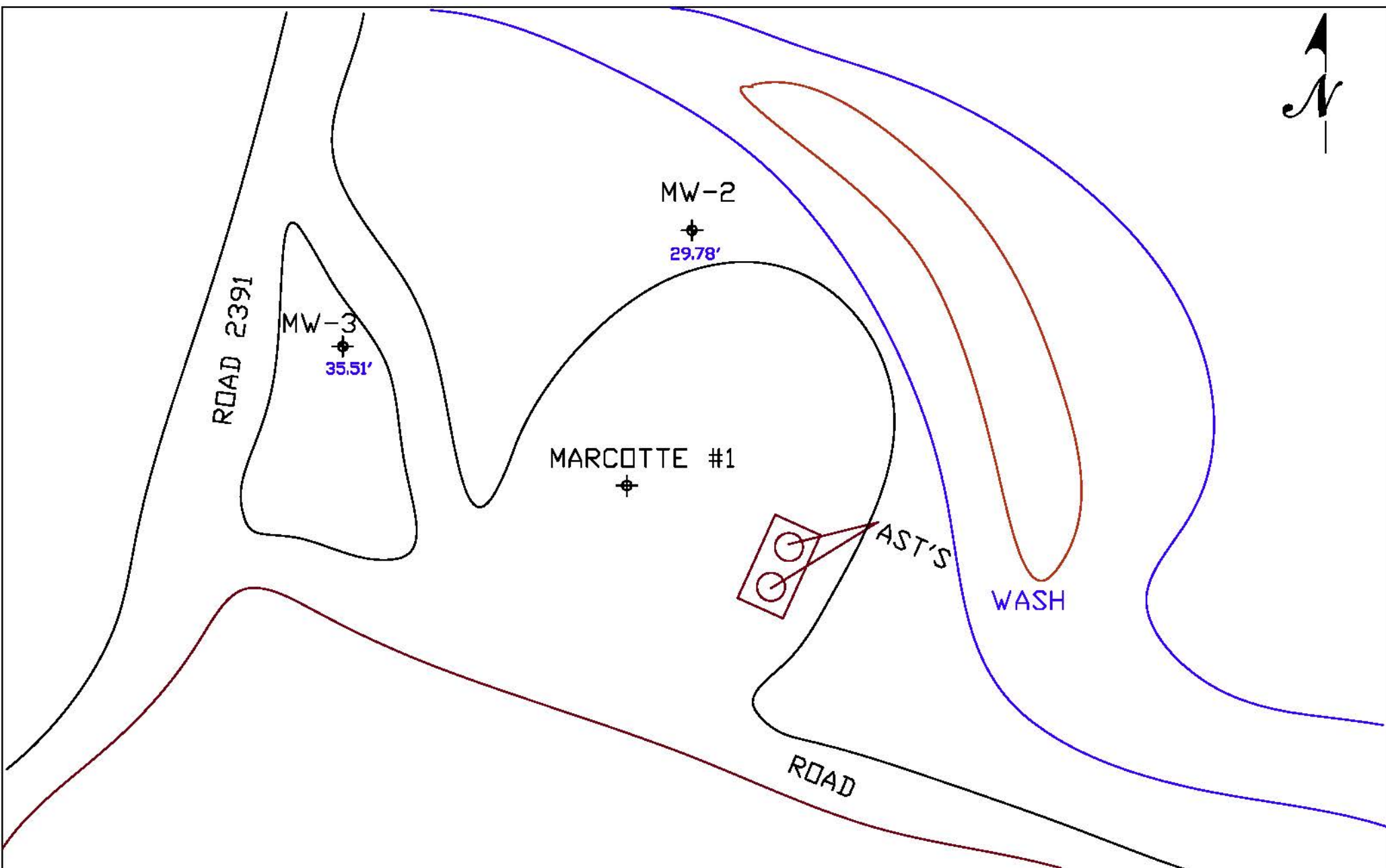
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64
FARMINGTON, NEW MEXICO 87401
PHONE (505) 632-0615

DRAWN BY:
Toni McKnight

PROJECT MANAGER:
Greg Crabtree



LEGEND MW-1  MONITORING WELL LOCATION  FENCE LINE		MARCOTTE #1 (HBR) WELL SITE SECTION 8, TOWNSHIP 31N, RANGE 10W SAN JUAN COUNTY, NEW MEXICO REVISIONS BY _____ DATE _____ BY _____ DATE _____ PROJECT NO. 92115-1532		ENVIROTECH INC. ENVIRONMENTAL SCIENTISTS & ENGINEERS 5798 U.S. HIGHWAY 64 FARMINGTON, NEW MEXICO 87401 (505) 832-0815		SITE MAP DATE 3/18/2011 SCALE 1" : 75' DRAWN TLM APPROVED GWC FIGURE 2		
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LEGEND		MARCOTTE #1 (HBR) WELL SITE SECTION 8, TOWNSHIP 31N, RANGE 10W SAN JUAN COUNTY, NEW MEXICO		ENVIROTECH INC.		Depth to Groundwater Map		
MW-1 ⊕	MONITORING WELL LOCATION	REVISIONS		ENVIRONMENTAL SCIENTISTS & ENGINEERS 5798 U.S. HIGHWAY 64 FARMINGTON, NEW MEXICO 87401 (505) 832-0815		DATE <u>3/18/2011</u>	DRAWN <u>TLM</u>	FIGURE
—	FENCE LINE	BY _____ DATE _____	PROJECT NO. 92115-1532			SCALE <u>1" : 75'</u>	APPROVED _____	<u>3</u>
6488.00	WATER LEVEL BELOW TDC	BY _____ DATE _____					GWC	

TABLES

Table 1, Water Level Measurements

Table 2, Water Quality Control Commission Regulatory Results

Company	ConocoPhillips
Site Name	Marcotte #1 (hBr)
Date	December 9, 2011
Project #	92115-1532

Table 1: Water Level Measurements

Well #	Date of Sample	Water Level Measurement (Feet Below TOC)	Total Depth (Feet Below TOC)	Water Column (Feet)	Bailed Water (Gallons)	Stabilized Conductivity Reading	Stabilized Temperature Reading (F)
MW-2	12/09/10	29.78	37.40	7.62	8.0	2.82	58.5
MW-3	12/09/10	35.51	38.45	2.94	7.5	3.04	56.0

Company:	ConocoPhillips
Site Name	Marcotte #1 (hBr)
Date	December 9, 2010
Project #	92115-1532

Table 2: Water Quality Control Commission Regulatory Results

Well #			MW-2	MW-3
Date of Sample			12/9/2010	12/9/2010
Analyte	NMWQCC Standard Water Standard	USEPA Method	Laboratory Results (ppm)	
Arsenic	0.1	6010B	0.003	0.002
Barium	1.0	6010B	0.009	0.009
Cadmium	0.01	6010B	BDL	BDL
Chromium	0.05	6010B	BDL	BDL
Cyanide	0.2	335.3	0.003	0.002
Flouride	1.6	600/4-79-020	BDL	1.14
Lead	0.05	6010B	BDL	BDL
Total Mercury	0.002	6010B	BDL	BDL
Nitrate (NO3 as N)	10.0	600/4-79-020	6.36	BDL
Selenium	0.05	6010B	0.021	0.027
Silver	0.05	6010B	0.005	0.031
Uranium	0.03	N/A	BDL	BDL
Radioactivity (pCi/l)	30.0	N/A	2.08	2.37
Benzene	0.01	8260	BDL	BDL
PCBs	0.001	N/A	BDL	BDL
Toluene	0.75	8260	BDL	BDL
Carbon Tetrachloride	0.01	8260	BDL	BDL
EDC	0.01	8260	BDL	BDL
1,1-DCE	0.005	8260	BDL	BDL
PCE	0.02	8260	BDL	BDL
TCE	0.1	8260	BDL	BDL
Ethylbenzene	0.75	8260	BDL	BDL
Total Xylenes	0.62	8260	BDL	BDL
Methylene Chloride	0.1	8260	BDL	BDL
Chloroform	0.1	8260	BDL	BDL
1,1-dichloroethane	0.025	8260	BDL	BDL
EDB	0.0001	8260	BDL	BDL
1,1,1-Trichloroethane	0.06	8260	BDL	BDL
1,1,2-Trichloroethane	0.01	8260	BDL	BDL
1,1,2,2-Tetrachloroethane	0.01	8260	BDL	BDL
Vinyl Chloride	0.001	8260	BDL	BDL
PAHs	0.03	8100	BDL	BDL
Benzo-a-Pyrene	0.0007	8100	BDL	BDL
Chloride	250.0	600/4-79-020	1460	1420
Copper	1.0	NS	NS	NS
Iron	1.0	600/4-79-020	0.042	0.009
Manganese	0.2	NS	NS	NS
Phenols	0.005	8041	BDL	BDL
Sulfate	600.0	600/4-79-020	15.3	15.2
TDS	1000.0	600/4-79-020	2750	2630
Zinc	10.0	NS	NS	NS
pH	6-9	600/4-79-020	6.71	6.92

BDL - Below Detectable Limits

NS - Not Sampled

Values in bold exceed NMED WQCC water quality standards

APPENDIX A

Laboratory Analytical Results

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-2	Date Reported:	12-21-10
Laboratory Number:	56706	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-15-10
Preservative:	HNO3	Date Digested:	12-13-10
Condition:	Intact	Analysis Needed:	Dissolved Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	0.003	0.001
Barium	0.009	0.001
Cadmium	ND	0.001
Chromium	ND	0.001
Lead	ND	0.001
Mercury	ND	0.001
Selenium	0.021	0.001
Silver	0.027	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Marcotte #1**



Analyst

Review

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-3	Date Reported:	12-21-10
Laboratory Number:	56707	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-15-10
Preservative:	HNO3	Date Digested:	12-13-10
Condition:	Intact	Analysis Needed:	Dissolved Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	0.002	0.001
Barium	0.009	0.001
Cadmium	ND	0.001
Chromium	ND	0.001
Lead	ND	0.001
Mercury	ND	0.001
Selenium	0.005	0.001
Silver	0.031	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

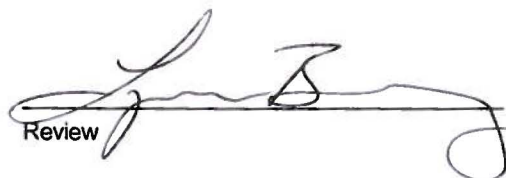
Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Marcotte #1**



 Analyst



 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	12-15-TM QA/QC	Date Reported:	12-21-10
Laboratory Number:	56709	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Analysis Requested:	Dissolved Metals	Date Analyzed:	12-15-10
Condition:	Intact	Date Digested:	12-13-10

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Barium	ND	ND	0.001	0.114	0.115	0.1%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.250	0.001	0.232	92.3%	80% - 120%
Barium	0.500	0.114	0.581	94.5%	80% - 120%
Cadmium	0.250	ND	0.218	87.2%	80% - 120%
Chromium	0.500	ND	0.426	85.1%	80% - 120%
Lead	0.500	ND	0.428	85.5%	80% - 120%
Mercury	0.100	ND	0.091	90.6%	80% - 120%
Selenium	0.100	ND	0.095	95.2%	80% - 120%
Silver	0.100	ND	0.094	94.2%	80% - 120%

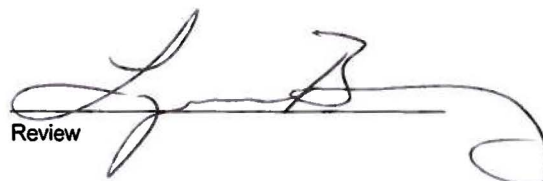
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
 SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 56709, 56706-56707**


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-2	Date Reported:	12-21-10
Laboratory Number:	56706	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-15-10
Preservative:	HNO3	Date Digested:	12-13-10
Condition:	Intact	Analysis Needed:	Total Mercury

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Mercury	ND	0.001

ND - Parameter not detected at the stated detection limit.

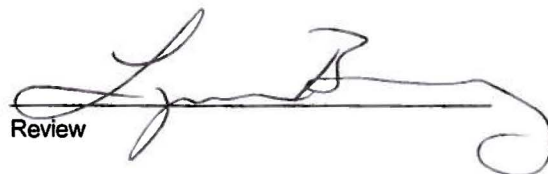
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Marcotte #1**



Analyst

Review

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-3	Date Reported:	12-21-10
Laboratory Number:	56707	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-15-10
Preservative:	HNO3	Date Digested:	12-13-10
Condition:	Intact	Analysis Needed:	Total Mercury

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Mercury	ND	0.001

ND - Parameter not detected at the stated detection limit.

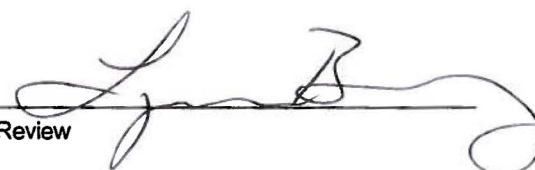
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Marcotte #1**



Analyst

Review

TRACE METAL ANALYSIS
Quality Control /
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-15-TM QA/QC	Date Reported:	12-21-10
Laboratory Number:	56706	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Analysis Requested:	Total Mercury	Date Analyzed:	12-15-10
Condition:	Intact	Date Digested:	12-13-10

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Mercury	0.100	ND	0.091	91.2%	80% - 120%

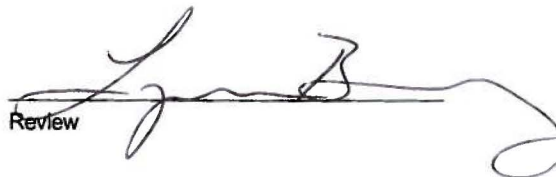
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
 SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 56706-56707**


 Analyst


 Review

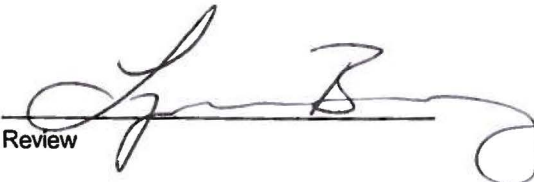
Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-2	Date Reported:	12-16-10
Laboratory Number:	56706	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-11-10
Preservative:	Cool		
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	6.71	s.u.		
Conductivity @ 25° C	3,200	umhos/cm		
Total Dissolved Solids @ 180C	2,590	mg/L		
Total Dissolved Solids (Calc)	2,750	mg/L		
SAR	7.90	ratio		
Total Alkalinity as CaCO3	410	mg/L		
Total Hardness as CaCO3	1,100	mg/L		
Bicarbonate as CaCO3	410	mg/L	6.72	meq/L
Carbonate as CaCO3	<0.1	mg/L	0.00	meq/L
Hydroxide as CaCO3	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	6.36	mg/L	0.10	meq/L
Nitrite Nitrogen	<0.1	mg/L	0.00	meq/L
Chloride	1,460	mg/L	41.2	meq/L
Fluoride	<0.1	mg/L	0.00	meq/L
Phosphate	5.08	mg/L	0.16	meq/L
Sulfate	15.3	mg/L	0.32	meq/L
Iron	0.042	mg/L	0.00	meq/L
Calcium	360	mg/L	18.0	meq/L
Magnesium	50.0	mg/L	4.11	meq/L
Potassium	6.56	mg/L	0.17	meq/L
Sodium	603	mg/L	26.2	meq/L
Cations			48.5	meq/L
Anions			48.5	meq/L
Cation/Anion Difference			0.00%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
 Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Marcotte #1**


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-3	Date Reported:	12-16-10
Laboratory Number:	56707	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-11-10
Preservative:	Cool		
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	6.92	s.u.		
Conductivity @ 25° C	3,480	umhos/cm		
Total Dissolved Solids @ 180C	2,720	mg/L		
Total Dissolved Solids (Calc)	2,630	mg/L		
SAR	7.10	ratio		
Total Alkalinity as CaCO3	370	mg/L		
Total Hardness as CaCO3	1,130	mg/L		
Bicarbonate as CaCO3	370	mg/L	6.06	meq/L
Carbonate as CaCO3	<0.1	mg/L	0.00	meq/L
Hydroxide as CaCO3	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	<0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.1	mg/L	0.00	meq/L
Chloride	1,420	mg/L	40.1	meq/L
Fluoride	1.14	mg/L	0.06	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	15.2	mg/L	0.32	meq/L
Iron	0.009	mg/L	0.00	meq/L
Calcium	367	mg/L	18.3	meq/L
Magnesium	50.9	mg/L	4.19	meq/L
Potassium	4.28	mg/L	0.11	meq/L
Sodium	550	mg/L	23.9	meq/L
Cations			46.5	meq/L
Anions			46.5	meq/L
Cation/Anion Difference			0.00%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
 Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Marcotte #1**

Analyst

Review

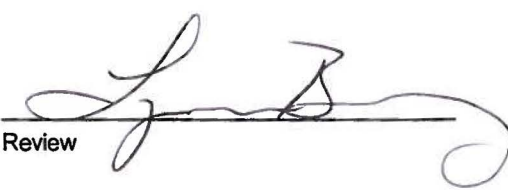
Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-2	Date Reported:	12-21-10
Laboratory Number:	56706	Date Sampled:	12-09-10
Sample Matrix:	Aqueous	Date Received:	12-09-10
Preservative:	NaOH	Date Analyzed:	12-21-10
Condition:	Intact	Chain of Custody:	10871

Parameter	Analytical Result	Units
Cyanide (total)	0.003	mg/L

Reference: U.S.E.P.A., Method 335.3 Cyanide, Total.

Comments: **Marcotte #1**



Analyst

Review

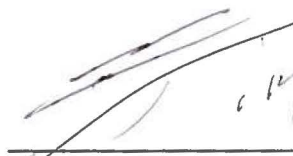
Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-3	Date Reported:	12-21-10
Laboratory Number:	56707	Date Sampled:	12-09-10
Sample Matrix:	Aqueous	Date Received:	12-09-10
Preservative:	NaOH	Date Analyzed:	12-21-10
Condition:	Intact	Chain of Custody:	10871

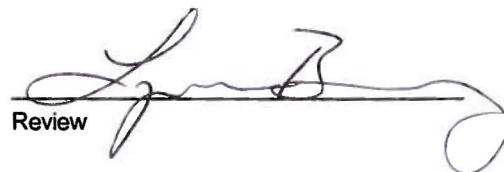
Parameter	Analytical Result	Units
-----------	-------------------	-------

Cyanide (total)	0.002	mg/L
-----------------	-------	------

Reference: U.S.E.P.A., Method 335.3 Cyanide, Total.

Comments: Marcotte #1



Analyst

Review



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

Report Summary

Monday January 17, 2011

Report Number: L494527

Samples Received: 12/20/10

Client Project: 92115-1532

Description: Marcotte #1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

January 17, 2011

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

Date Received : December 20, 2010
Description : Marcotte #1
Sample ID : 56706 - MW-2
Collected By : T. McKnight
Collection Date : 12/09/10 12:30

ESC Sample # : L494527-01

Site ID :

Project : 92115-1532

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
Uranium	BDL	20.	ug/l	30.	200.8	12/23/10 1137	JLC	1
Radium 226	BDL	1.0	pCi/l	3.0	7500-Ra	12/23/10 1210	JLC	1
Radium 226 - 2 Sigma	0.40		pCi/l		7500-Ra		JLC	1
Radium 228	1.2	1.0	pCi/l	2.5	7500-Ra	12/29/10 1655	JLC	1
Radium 228 - 2 Sigma	0.48		pCi/l		7500-Ra		JLC	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 01/17/11 11:50 Printed: 01/17/11 11:50

L494527-01 (RA226) - subcontracted to GEL Labs

L494527-01 (RA228) - subcontracted to GEL Labs

L494527-01 (UTOT) - subcontracted to GEL Labs



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REPORT OF ANALYSIS

January 17, 2011

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

Date Received : December 20, 2010
Description : Marcotte #1
Sample ID : 56707 - MW-3
Collected By : T. McKnight
Collection Date : 12/09/10 14:00

ESC Sample # : L494527-02

Site ID :

Project : 92115-1532

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
Uranium	BDL	20.	ug/l	30.	200.8	12/23/10 1139	JLC	1
Radium 226	BDL	1.0	pCi/l	3.0	7500-Ra	12/30/10 1210	JLC	1
Radium 226 - 2 Sigma	0.48		pCi/l		7500-Ra		JLC	1
Radium 228	1.4	1.0	pCi/l	2.5	7500-Ra	12/29/10 1655	JLC	1
Radium 228 - 2 Sigma	0.49		pCi/l		7500-Ra		JLC	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 01/17/11 11:50 Printed: 01/17/11 11:50

L494527-02 (RA226) - subcontracted to GEL Labs

L494527-02 (RA228) - subcontracted to GEL Labs

L494527-02 (UTOT) - subcontracted to GEL Labs

Summary of Remarks For Samples Printed
01/17/11 at 11:50:26

TSR Signing Reports: 288
R5 - Desired TAT

Sample: L494527-01 Account: ENVIROFNM Received: 12/20/10 09:00 Due Date: 01/17/11 00:00 RPT Date: 01/17/11 11:50
Subbed to GEL jlc 12/20/10 PO#S14126
Sample: L494527-02 Account: ENVIROFNM Received: 12/20/10 09:00 Due Date: 01/17/11 00:00 RPT Date: 01/17/11 11:50
Subbed to GEL jlc 12/20/10 PO#S14126



YOUR LAB OF CHOICE

EnviroTech- NM
Lynn Berry
5796 US. Highway 64
Farmington, NM 87401

Quality Assurance Report
Level II
L494527

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Fax (615) 758-5859
Tax I.D. 62-0814289
Est. 1970

January 17, 2011

Batch number / Run number / Sample number cross reference

WG514204: R1540429: L494527-01 02

- * * Calculations are performed prior to rounding of reported values.
- * Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

EnviroTech- NM
Lynn Berry
5796 US. Highway 64
Farmington, NM 87401

Quality Assurance Report
Level II

L494527

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January 17, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address: EnviroTech- NM 5796 US. Highway 64 Farmington, NM 87401			Alternate billing information:			Analysis/Container/Preservative			Chain of Custody Page <u>1</u> of <u>1</u> Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859					
Report to: <u>Lynn Berry</u>			Email to: <u>lberry@envirotech-inc.com</u>			Uranium Rad. 226 <2 Rad. 228 <2								
Project Description: <u>Marcotte #1</u>			City/State Collected											
Phone: <u>(505) 632-0615</u>			Client Project #: <u>92115-1532</u>											
FAX:			ESG Key:											
Collected by: <u>T. McKnight</u>			Site/Facility ID#:			P.O.#: <u>9087</u>			GoCode: ENVIROFNN (lab use only) Template/Protocol: Shipped Via:					
Collected by (signature):			☒ Rush? (Lab MUST Be Notified) _____ Same Day..... 200% _____ Next Day..... 100% _____ Two Day..... 50% _____ Three Day..... 25%			Date Results Needed: Email? ☐ No ☐ Yes FAX? ☐ No ☐ Yes						No. of Cntrs		
Immediately Packed on Ice N <u>Y</u> <u>X</u>														
Sample ID			Comp/Grab	Matrix*	Depth	Date	Time							
<u>56706- MLW-2</u>				<u>OT</u>		<u>12/9/10</u>	<u>12:30</u>	<u>2</u>	☒	☒	☒			
<u>56707- MW-3</u>				<u>OT</u>		<u>12/9/10</u>	<u>14:00</u>	<u>2</u>	☒	☒	☒			

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other Aggregates

pH _____ Temp _____

Remarks:

70

Flow _____ Other _____

Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>12/17/10</u>	Time: <u>11:30</u>	Received by: (Signature) <u>[Signature]</u>		Samples returned via: ☐ UPS ☒ FedEx ☐ Courier		Condition: (lab use only) <u>OK</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Date:	Time:	Received by: (Signature) <u>[Signature]</u>		Temp: <u>1.2°C</u>		Bottles Received: <u>4</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>		Date: <u>12/20/10</u>		Time: <u>0900</u>	
						pH Checked: <u>EA</u>		NCF:	

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-2	Date Reported:	12-14-10
Chain of Custody:	10871	Date Sampled:	12-09-10
Laboratory Number:	56706	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-10-10
Preservative:	HCl	Analysis Requested:	8260 VOC
Condition:	Cool and Intact		

Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
Benzene	ND	(ug/L)	1.0	1
Toluene	ND	(ug/L)	1.0	1
Ethylbenzene	ND	(ug/L)	1.0	1
Xylenes, Total	ND	(ug/L)	1.0	1
Methyl tert-butyl ether (MTBE)	ND	(ug/L)	1.0	1
1,2,4-Trimethylbenzene	ND	(ug/L)	1.0	1
1,3,5-Trimethylbenzene	ND	(ug/L)	1.0	1
1,2-Dichloroethane (EDC)	ND	(ug/L)	1.0	1
1,2-Dibromoethane (EDB)	ND	(ug/L)	1.0	1
Naphthalene	ND	(ug/L)	1.0	1
1-Methylnaphthalene	ND	(ug/L)	2.0	1
2-Methylnaphthalene	ND	(ug/L)	2.0	1
Bromobenzene	ND	(ug/L)	1.0	1
Bromochloromethane	ND	(ug/L)	1.0	1
Bromodichloromethane	ND	(ug/L)	1.0	1
Bromoform	ND	(ug/L)	1.0	1
Bromomethane	ND	(ug/L)	1.0	1
Carbon Tetrachloride	ND	(ug/L)	1.0	1
Chlorobenzene	ND	(ug/L)	1.0	1
Chloroethane	ND	(ug/L)	2.0	1
Chloroform	ND	(ug/L)	1.0	1
Chloromethane	ND	(ug/L)	1.0	1
2-Chlorotoluene	ND	(ug/L)	1.0	1
4-Chlorotoluene	ND	(ug/L)	1.0	1
cis-1,2-Dichloroethene	ND	(ug/L)	1.0	1
cis-1,3-Dichloropropene	ND	(ug/L)	1.0	1
1,2-Dibromo-3-chloropropane	ND	(ug/L)	2.0	1
Dibromochloromethane	ND	(ug/L)	1.0	1
Dibromoethane	ND	(ug/L)	2.0	1
1,2-Dichlorobenzene	ND	(ug/L)	1.0	1
1,3-Dichlorobenzene	ND	(ug/L)	1.0	1
1,4-Dichlorobenzene	ND	(ug/L)	1.0	1
Dichlorodifluoromethane	ND	(ug/L)	1.0	1
1,1-Dichloroethane	ND	(ug/L)	1.0	1
1,1-Dichloroethene	ND	(ug/L)	1.0	1
1,2-Dichloropropane	ND	(ug/L)	1.0	1
1,3-Dichloropropane	ND	(ug/L)	1.0	1
2,2-Dichloropropane	ND	(ug/L)	1.0	1

Client: ConocoPhillips
 Sample ID: MW-2
 Laboratory Number: 56706

page 2

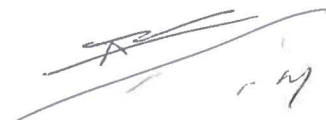
Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
1,1-Dichloropropene	ND	(ug/L)	1.0	1
Hexachlorobutadiene	ND	(ug/L)	1.0	1
Isopropylbenzene	ND	(ug/L)	1.0	1
4-Isopropyltoluene	ND	(ug/L)	1.0	1
Methylene Chloride	ND	(ug/L)	3.0	1
n-Butylbenzene	ND	(ug/L)	1.0	1
n-Propylbenzene	ND	(ug/L)	1.0	1
sec-Butylbenzene	ND	(ug/L)	1.0	1
Styrene	ND	(ug/L)	1.0	1
tert-Butylbenzene	ND	(ug/L)	1.0	1
Tetrachloroethene (PCE)	ND	(ug/L)	1.0	1
1,1,1,2-Tetrachloroethane	ND	(ug/L)	1.0	1
1,1,2,2-Tetrachloroethane	ND	(ug/L)	1.0	1
trans-1,2-Dichloroethene	ND	(ug/L)	1.0	1
trans-1,3-Dichloropropene	ND	(ug/L)	1.0	1
Trichloroethene (TCE)	ND	(ug/L)	1.0	1
Trichlorofluoromethane	ND	(ug/L)	1.0	1
1,2,3-Trichlorobenzene	ND	(ug/L)	1.0	1
1,2,4-Trichlorobenzene	ND	(ug/L)	1.0	1
1,1,1-Trichloroethane	ND	(ug/L)	1.0	1
1,1,2-Trichloroethane	ND	(ug/L)	1.0	1
1,2,3-Trichloropropane	ND	(ug/L)	2.0	1
Vinyl Chloride	ND	(ug/L)	2.0	1

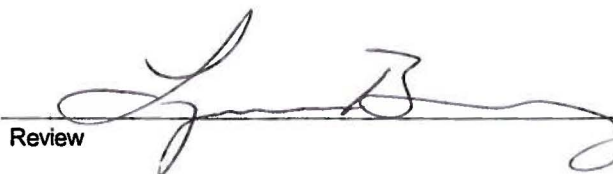
Surrogates:	Rec. Limits			
Dibromofluoromethane	90.0	% Recovery	78.6-115	1
1,2-Dichloroethane-d4	87.2	% Recovery	74.6-123	1
Toluene-d8	88.2	% Recovery	84.2-115	1
4-Bromofluorobenzene	94.5	% Recovery	78.6-115	1

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste,
 SW-846, USEPA, July 1992.
 Method 8260, Volatile Organic Compounds by Gas Chromatography / Mass
 Spectrometry, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Comments: **Marcotte #1**


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-3	Date Reported:	12-14-10
Chain of Custody:	10871	Date Sampled:	12-09-10
Laboratory Number:	56707	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-10-10
Preservative:	HCl	Analysis Requested:	8260 VOC
Condition:	Cool and Intact		

Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
Benzene	ND	(ug/L)	1.0	1
Toluene	ND	(ug/L)	1.0	1
Ethylbenzene	ND	(ug/L)	1.0	1
Xylenes, Total	ND	(ug/L)	1.0	1
Methyl tert-butyl ether (MTBE)	ND	(ug/L)	1.0	1
1,2,4-Trimethylbenzene	ND	(ug/L)	1.0	1
1,3,5-Trimethylbenzene	ND	(ug/L)	1.0	1
1,2-Dichloroethane (EDC)	ND	(ug/L)	1.0	1
1,2-Dibromoethane (EDB)	ND	(ug/L)	1.0	1
Naphthalene	ND	(ug/L)	1.0	1
1-Methylnaphthalene	ND	(ug/L)	2.0	1
2-Methylnaphthalene	ND	(ug/L)	2.0	1
Bromobenzene	ND	(ug/L)	1.0	1
Bromochloromethane	ND	(ug/L)	1.0	1
Bromodichloromethane	ND	(ug/L)	1.0	1
Bromoform	ND	(ug/L)	1.0	1
Bromomethane	ND	(ug/L)	1.0	1
Carbon Tetrachloride	ND	(ug/L)	1.0	1
Chlorobenzene	ND	(ug/L)	1.0	1
Chloroethane	ND	(ug/L)	2.0	1
Chloroform	ND	(ug/L)	1.0	1
Chloromethane	ND	(ug/L)	1.0	1
2-Chlorotoluene	ND	(ug/L)	1.0	1
4-Chlorotoluene	ND	(ug/L)	1.0	1
cis-1,2-Dichloroethene	ND	(ug/L)	1.0	1
cis-1,3-Dichloropropene	ND	(ug/L)	1.0	1
1,2-Dibromo-3-chloropropane	ND	(ug/L)	2.0	1
Dibromochloromethane	ND	(ug/L)	1.0	1
Dibromoethane	ND	(ug/L)	2.0	1
1,2-Dichlorobenzene	ND	(ug/L)	1.0	1
1,3-Dichlorobenzene	ND	(ug/L)	1.0	1
1,4-Dichlorobenzene	ND	(ug/L)	1.0	1
Dichlorodifluoromethane	ND	(ug/L)	1.0	1
1,1-Dichloroethane	ND	(ug/L)	1.0	1
1,1-Dichloroethene	ND	(ug/L)	1.0	1
1,2-Dichloropropane	ND	(ug/L)	1.0	1
1,3-Dichloropropane	ND	(ug/L)	1.0	1
2,2-Dichloropropane	ND	(ug/L)	1.0	1



Client: ConocoPhillips
Sample ID: MW-3
Laboratory Number: 56707

page 2

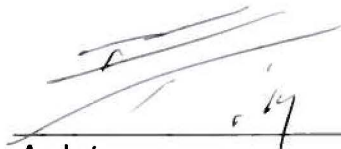
Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
1,1-Dichloropropene	ND	(ug/L)	1.0	1
Hexachlorobutadiene	ND	(ug/L)	1.0	1
Isopropylbenzene	ND	(ug/L)	1.0	1
4-Isopropyltoluene	ND	(ug/L)	1.0	1
Methylene Chloride	ND	(ug/L)	3.0	1
n-Butylbenzene	ND	(ug/L)	1.0	1
n-Propylbenzene	ND	(ug/L)	1.0	1
sec-Butylbenzene	ND	(ug/L)	1.0	1
Styrene	ND	(ug/L)	1.0	1
tert-Butylbenzene	ND	(ug/L)	1.0	1
Tetrachloroethene (PCE)	ND	(ug/L)	1.0	1
1,1,1,2-Tetrachloroethane	ND	(ug/L)	1.0	1
1,1,2,2-Tetrachloroethane	ND	(ug/L)	1.0	1
trans-1,2-Dichloroethene	ND	(ug/L)	1.0	1
trans-1,3-Dichloropropene	ND	(ug/L)	1.0	1
Trichloroethene (TCE)	ND	(ug/L)	1.0	1
Trichlorofluoromethane	ND	(ug/L)	1.0	1
1,2,3-Trichlorobenzene	ND	(ug/L)	1.0	1
1,2,4-Trichlorobenzene	ND	(ug/L)	1.0	1
1,1,1-Trichloroethane	ND	(ug/L)	1.0	1
1,1,2-Trichloroethane	ND	(ug/L)	1.0	1
1,2,3-Trichloropropane	ND	(ug/L)	2.0	1
Vinyl Chloride	ND	(ug/L)	2.0	1

Surrogates:	Rec. Limits			
Dibromofluoromethane	96.7	% Recovery	78.6-115	1
1,2-Dichloroethane-d4	87.8	% Recovery	74.6-123	1
Toluene-d8	87.5	% Recovery	84.2-115	1
4-Bromofluorobenzene	88.9	% Recovery	78.6-115	1

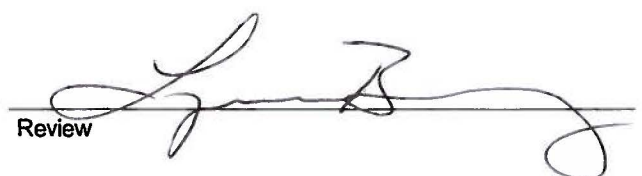
ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste,
SW-846, USEPA, July 1992.
Method 8260, Volatile Organic Compounds by Gas Chromatography / Mass
Spectrometry, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Comments: **Marcotte #1**



Analyst



Review

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

Client:	QA/QC	Project #:	N/A
Sample ID:	8260 Blank 12/10	Date Reported:	12-14-10
Laboratory Number:	1210VBLK	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-10-10
Condition:	N/A	Analysis Requested:	8260 VOC

Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
Benzene	ND	(ug/L)	1.0	1
Toluene	ND	(ug/L)	1.0	1
Ethylbenzene	ND	(ug/L)	1.0	1
Xylenes, Total	ND	(ug/L)	1.0	1
Methyl tert-butyl ether (MTBE)	ND	(ug/L)	1.0	1
1,2,4-Trimethylbenzene	ND	(ug/L)	1.0	1
1,3,5-Trimethylbenzene	ND	(ug/L)	1.0	1
1,2-Dichloroethane (EDC)	ND	(ug/L)	1.0	1
1,2-Dibromoethane (EDB)	ND	(ug/L)	1.0	1
Naphthalene	ND	(ug/L)	1.0	1
1-Methylnaphthalene	ND	(ug/L)	2.0	1
2-Methylnaphthalene	ND	(ug/L)	2.0	1
Bromobenzene	ND	(ug/L)	1.0	1
Bromochloromethane	ND	(ug/L)	1.0	1
Bromodichloromethane	ND	(ug/L)	1.0	1
Bromoform	ND	(ug/L)	1.0	1
Bromomethane	ND	(ug/L)	1.0	1
Carbon Tetrachloride	ND	(ug/L)	1.0	1
Chlorobenzene	ND	(ug/L)	1.0	1
Chloroethane	ND	(ug/L)	2.0	1
Chloroform	ND	(ug/L)	1.0	1
Chloromethane	ND	(ug/L)	1.0	1
2-Chlorotoluene	ND	(ug/L)	1.0	1
4-Chlorotoluene	ND	(ug/L)	1.0	1
cis-1,2-Dichloroethene	ND	(ug/L)	1.0	1
cis-1,3-Dichloropropene	ND	(ug/L)	1.0	1
1,2-Dibromo-3-chloropropane	ND	(ug/L)	2.0	1
Dibromochloromethane	ND	(ug/L)	1.0	1
Dibromoethane	ND	(ug/L)	2.0	1
1,2-Dichlorobenzene	ND	(ug/L)	1.0	1
1,3-Dichlorobenzene	ND	(ug/L)	1.0	1
1,4-Dichlorobenzene	ND	(ug/L)	1.0	1
Dichlorodifluoromethane	ND	(ug/L)	1.0	1
1,1-Dichloroethane	ND	(ug/L)	1.0	1
1,1-Dichloroethene	ND	(ug/L)	1.0	1
1,2-Dichloropropane	ND	(ug/L)	1.0	1
1,3-Dichloropropane	ND	(ug/L)	1.0	1
2,2-Dichloropropane	ND	(ug/L)	1.0	1

Client: QA/QC
 Sample ID: 8260 Blank 12/10
 Laboratory Number: 1210VBLK

page 2

Parameter	Concentration (ug/L)	Units	Det. Limit	Dilution Factor
1,1-Dichloropropene	ND	(ug/L)	1.0	1
Hexachlorobutadiene	ND	(ug/L)	1.0	1
Isopropylbenzene	ND	(ug/L)	1.0	1
4-Isopropyltoluene	ND	(ug/L)	1.0	1
Methylene Chloride	ND	(ug/L)	1.0	1
n-Butylbenzene	ND	(ug/L)	1.0	1
n-Propylbenzene	ND	(ug/L)	1.0	1
sec-Butylbenzene	ND	(ug/L)	1.0	1
Styrene	ND	(ug/L)	1.0	1
tert-Butylbenzene	ND	(ug/L)	1.0	1
Tetrachloroethene (PCE)	ND	(ug/L)	1.0	1
1,1,1,2-Tetrachloroethane	ND	(ug/L)	1.0	1
1,1,2,2-Tetrachloroethane	ND	(ug/L)	1.0	1
trans-1,2-Dichloroethene	ND	(ug/L)	1.0	1
trans-1,3-Dichloropropene	ND	(ug/L)	1.0	1
Trichloroethene (TCE)	ND	(ug/L)	1.0	1
Trichlorofluoromethane	ND	(ug/L)	1.0	1
1,2,3-Trichlorobenzene	ND	(ug/L)	1.0	1
1,2,4-Trichlorobenzene	ND	(ug/L)	1.0	1
1,1,1-Trichloroethane	ND	(ug/L)	1.0	1
1,1,2-Trichloroethane	ND	(ug/L)	1.0	1
1,2,3-Trichloropropane	ND	(ug/L)	2.0	1
Vinyl Chloride	ND	(ug/L)	2.0	1

Surrogates:	Rec. Limits			
Dibromofluoromethane	101	% Recovery	78.6-115	1
1,2-Dichloroethane-d4	110	% Recovery	74.6-123	1
Toluene-d8	97.5	% Recovery	84.2-115	1
4-Bromofluorobenzene	98.3	% Recovery	78.6-115	1

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste,
 SW-846, USEPA, July 1992.
 Method 8260, Volatile Organic Compounds by Gas Chromatography / Mass
 Spectrometry, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Comments: **QA/QC for Sample 56703-56707**

Analyst

Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Daily Calibration	Date Reported:	12-14-10
Laboratory Number:	1210V	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-10-10
Condition:	N/A	Analysis Requested:	8260 VOC

Parameter	Concentration (ug/L)	Result	% Recovered	% Recovery Limits
Benzene	100	100	100	80 - 120
Toluene	100	100	100	80 - 120
Ethylbenzene	100	100	100	80 - 120
Xylenes, Total	100	300	300	80 - 120
Methyl tert-butyl ether (MTBE)	100	100	100	80 - 120
1,2,4-Trimethylbenzene	100	100	100	80 - 120
1,3,5-Trimethylbenzene	100	99.3	99.3	80 - 120
1,2-Dichloroethane (EDC)	100	101	101	80 - 120
1,2-Dibromoethane (EDB)	100	100	100	80 - 120
Naphthalene	100	100	100	80 - 120
1-Methylnaphthalene	100	100	100	80 - 120
2-Methylnaphthalene	100	107	107	80 - 120
Bromobenzene	100	100	100	80 - 120
Bromochloromethane	100	100	100	80 - 120
Bromodichloromethane	100	100	100	80 - 120
Bromoform	100	100	100	80 - 120
Bromomethane	100	100	100	80 - 120
Carbon Tetrachloride	100	100	100	80 - 120
Chlorobenzene	100	100	100	80 - 120
Chloroethane	100	100	100	80 - 120
Chloroform	100	100	100	80 - 120
Chloromethane	100	100	100	80 - 120
2-Chlorotoluene	100	100	100	80 - 120
4-Chlorotoluene	100	100	100	80 - 120
cis-1,2-Dichloroethene	100	100	100	80 - 120
cis-1,3-Dichloropropene	100	100	100	80 - 120
1,2-Dibromo-3-chloropropane	100	100	100	80 - 120
Dibromochloromethane	100	100	100	80 - 120
Dibromoethane	100	100	100	80 - 120
1,2-Dichlorobenzene	100	100	100	80 - 120
1,3-Dichlorobenzene	100	100	100	80 - 120
1,4-Dichlorobenzene	100	100	100	80 - 120
Dichlorodifluoromethane	100	100	100	80 - 120
1,1-Dichloroethane	100	100	100	80 - 120
1,1-Dichloroethene	100	100	100	80 - 120
1,2-Dichloropropane	100	100	100	80 - 120
1,3-Dichloropropane	100	100	100	80 - 120
2,2-Dichloropropane	100	100	100	80 - 120

Client: QA/QC
 Sample ID: Daily Calibration
 Laboratory Number: 1210V

page 2

Parameter	Concentration (ug/L)	Result	% Recovered	% Recovery Limits
1,1-Dichloropropene	100	100	100	80 - 120
Hexachlorobutadiene	100	100	100	80 - 120
Isopropylbenzene	100	100	100	80 - 120
4-Isopropyltoluene	100	107	107	80 - 120
Methylene Chloride	100	100	100	80 - 120
n-Butylbenzene	100	100	100	80 - 120
n-Propylbenzene	100	98.4	98.4	80 - 120
sec-Butylbenzene	100	101	101	80 - 120
Styrene	100	100	100	80 - 120
tert-Butylbenzene	100	100	100	80 - 120
Tetrachloroethene (PCE)	100	100	100	80 - 120
1,1,1,2-Tetrachloroethane	100	100	100	80 - 120
1,1,2,2-Tetrachloroethane	100	100	100	80 - 120
trans-1,2-Dichloroethene	100	100	100	80 - 120
trans-1,3-Dichloropropene	100	100	100	80 - 120
Trichloroethene (TCE)	100	100	100	80 - 120
Trichlorofluoromethane	100	100	100	80 - 120
1,2,3-Trichlorobenzene	100	100	100	80 - 120
1,2,4-Trichlorobenzene	100	100	100	80 - 120
1,1,1-Trichloroethane	100	100	100	80 - 120
1,1,2-Trichloroethane	100	100	100	80 - 120
1,2,3-Trichloropropane	100	100	100	80 - 120
Vinyl Chloride	100	100	100	80 - 120

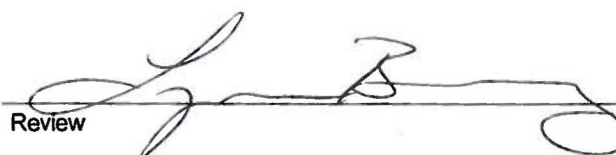
Surrogates:	Rec. Limits		
Dibromofluoromethane	100	% Recovery	78.6-115
1,2-Dichloroethane-d4	100	% Recovery	74.6-123
Toluene-d8	100	% Recovery	84.2-115
4-Bromofluorobenzene	100	% Recovery	78.6-115

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
 Method 8260, Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Comments: **QA/QC for Sample 56703-56707**


 Analyst


 Review

Client: QA/QC
 Sample ID: Matrix Spikes
 Laboratory Number: 12-10 VOA - 56703
 Sample Matrix: Aqueous
 Preservative: N/A
 Condition: N/A

Project #: N/A
 Date Reported: 12-14-10
 Date Sampled: N/A
 Date Received: N/A
 Date Analyzed: 12-10-10
 Analysis Requested: 8260 VOC

Spike Analyte	Sample	Units: ug/L		%Recovery	Recovery Limits	Det. Limit
		Added	Result			
Benzene	ND	100.0	87.0	87.0%	85.3 - 120	1.0
Toluene	ND	100.0	88.2	88.2%	73 - 123	1.0
Chlorobenzene	ND	100.0	85.6	85.6%	84.7 - 119	1.0
1,1-Dichloroethene	ND	100.0	88.4	88.4%	83.4 - 122	1.0
Trichloroethene (TCE)	ND	100.0	82.3	82.3%	76.1 - 126	1.0

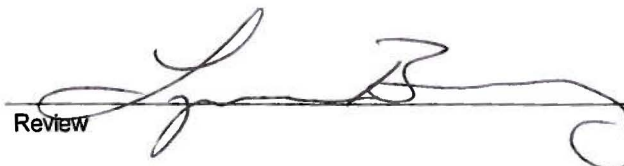
Spike Duplicate Analyte	Sample	Units: ug/L		%Recovery	Recovery Limits	Det. Limit
		Added	Result			
Benzene	ND	100.0	89.6	89.6%	85.3 - 120	1.0
Toluene	ND	100.0	89.8	89.8%	73 - 123	1.0
Chlorobenzene	ND	100.0	90.1	90.1%	84.7 - 119	1.0
1,1-Dichloroethene	ND	100.0	89.4	89.4%	83.4 - 122	1.0
Trichloroethene (TCE)	ND	100.0	82.8	82.8%	76.1 - 126	1.0

ND = Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
 Method 8260, Volatile Organic Compounds by Gas Chromatography / Mass Spectrometry, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Comments: QA/QC for Sample 56703-56707


 Analyst


 Review



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Tax I.D. 62-0814289

Est. 1970

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

Report Summary

Wednesday December 22, 2010

Report Number: L494092

Samples Received: 12/16/10

Client Project: 92115-1532

Description: Marcotte #1

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
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REPORT OF ANALYSIS

December 22, 2010

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

Date Received : December 16, 2010
Description : Marcotte # 1
Sample ID : MW-2-56706
Collected By : Toni McKnight
Collection Date : 12/09/10 12:30

ESC Sample # : L494092-01
Site ID :
Project # : 92115-1532

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	12/17/10	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	12/17/10	1
Dibromofluoromethane	108.		% Rec.	8260B	12/17/10	1
a,a,a-Trifluorotoluene	110.		% Rec.	8260B	12/17/10	1
4-Bromofluorobenzene	105.		% Rec.	8260B	12/17/10	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1221	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1232	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1242	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1248	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1254	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1260	BDL	0.00050	mg/l	8082	12/21/10	1
PCBs Surrogates						
Decachlorobiphenyl	67.6		% Rec.	8082	12/21/10	1
Tetrachloro-m-xylene	76.6		% Rec.	8082	12/21/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/22/10 12:01 Printed: 12/22/10 12:57



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REPORT OF ANALYSIS

December 22, 2010

Lynn Berry
EnviroTech- NM
5796 US. Highway 64
Farmington, NM 87401

Date Received : December 16, 2010
Description : Marcotte # 1
Sample ID : MW-3-56707
Collected By : Toni McKnight
Collection Date : 12/09/10 14:00

ESC Sample # : I494092-02

Site ID :

Project # : 92115-1532

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0010	mg/l	8260B	12/17/10	1
Toluene	BDL	0.0050	mg/l	8260B	12/17/10	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	12/17/10	1
Total Xylenes	BDL	0.0030	mg/l	8260B	12/17/10	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	12/17/10	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	12/17/10	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	12/17/10	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	12/17/10	1
Dibromofluoromethane	109.		% Rec.	8260B	12/17/10	1
a,a,a-Trifluorotoluene	109.		% Rec.	8260B	12/17/10	1
4-Bromofluorobenzene	113.		% Rec.	8260B	12/17/10	1
Polychlorinated Biphenyls						
PCB 1016	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1221	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1232	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1242	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1248	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1254	BDL	0.00050	mg/l	8082	12/21/10	1
PCB 1260	BDL	0.00050	mg/l	8082	12/21/10	1
PCBs Surrogates						
Decachlorobiphenyl	72.2		% Rec.	8082	12/21/10	1
Tetrachloro-m-xylene	80.9		% Rec.	8082	12/21/10	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/22/10 12:01 Printed: 12/22/10 12:57

Summary of Remarks For Samples Printed
12/22/10 at 12:57:51

TSR Signing Reports: 288
R5 - Desired TAT

Sample: L494092-01 Account: ENVIROFNM Received: 12/16/10 09:00 Due Date: 12/23/10 00:00 RPT Date: 12/22/10 12:01
Target EDB.
Sample: L494092-02 Account: ENVIROFNM Received: 12/16/10 09:00 Due Date: 12/23/10 00:00 RPT Date: 12/22/10 12:01
Target EDB.



YOUR LAB OF CHOICE

EnviroTech- NM
Lynn Berry
5796 US. Highway 64
Farmington, NM 87401

Quality Assurance Report
Level II

L494092

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December 22, 2010

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
1,2-Dibromoethane	< .001	mg/l			WG513827	12/17/10 13:20
1,2-Dichloroethane	< .001	mg/l			WG513827	12/17/10 13:20
Benzene	< .001	mg/l			WG513827	12/17/10 13:20
Ethylbenzene	< .001	mg/l			WG513827	12/17/10 13:20
Methyl tert-butyl ether	< .001	mg/l			WG513827	12/17/10 13:20
Toluene	< .005	mg/l			WG513827	12/17/10 13:20
Total Xylenes	< .003	mg/l			WG513827	12/17/10 13:20
4-Bromofluorobenzene		% Rec.	105.0	75-128	WG513827	12/17/10 13:20
Dibromofluoromethane		% Rec.	108.9	79-125	WG513827	12/17/10 13:20
Toluene-d8		% Rec.	103.7	87-114	WG513827	12/17/10 13:20
a,a,a-Trifluorotoluene		% Rec.	108.9	84-114	WG513827	12/17/10 13:20
PCB 1016	< .0005	mg/l			WG513753	12/20/10 09:05
PCB 1221	< .0005	mg/l			WG513753	12/20/10 09:05
PCB 1232	< .0005	mg/l			WG513753	12/20/10 09:05
PCB 1242	< .0005	mg/l			WG513753	12/20/10 09:05
PCB 1248	< .0005	mg/l			WG513753	12/20/10 09:05
PCB 1254	< .0005	mg/l			WG513753	12/20/10 09:05
PCB 1260	< .0005	mg/l			WG513753	12/20/10 09:05
Decachlorobiphenyl		% Rec.	95.19	10-122.6	WG513753	12/20/10 09:05
Tetrachloro-m-xylene		% Rec.	103.0	15.3-114.2	WG513753	12/20/10 09:05

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
1,2-Dibromoethane	mg/l	.025	0.0258	103.	75-126	WG513827
1,2-Dichloroethane	mg/l	.025	0.0269	108.	63-137	WG513827
Benzene	mg/l	.025	0.0255	102.	67-126	WG513827
Ethylbenzene	mg/l	.025	0.0279	112.	76-129	WG513827
Methyl tert-butyl ether	mg/l	.025	0.0263	105.	51-142	WG513827
Toluene	mg/l	.025	0.0255	102.	72-122	WG513827
Total Xylenes	mg/l	.075	0.0846	113.	75-128	WG513827
4-Bromofluorobenzene				104.3	75-128	WG513827
Dibromofluoromethane				106.4	79-125	WG513827
Toluene-d8				103.2	87-114	WG513827
a,a,a-Trifluorotoluene				105.7	84-114	WG513827
PCB 1016	mg/l	.0005	0.000464	92.7	49-105	WG513753
PCB 1260	mg/l	.0005	0.000509	102.	46-126	WG513753
Decachlorobiphenyl				91.20	10-122.6	WG513753
Tetrachloro-m-xylene				90.55	15.3-114.2	WG513753

Analyte	Units	Laboratory Control Result	Ref	Sample Duplicate %Rec	Limit	RPD	Limit	Batch
1,2-Dibromoethane	mg/l	0.0255	0.0258	102.	75-126	1.43	20	WG513827
1,2-Dichloroethane	mg/l	0.0260	0.0269	104.	63-137	3.25	20	WG513827
Benzene	mg/l	0.0241	0.0255	96.0	67-126	5.84	20	WG513827
Ethylbenzene	mg/l	0.0270	0.0279	108.	76-129	3.18	20	WG513827
Methyl tert-butyl ether	mg/l	0.0260	0.0263	104.	51-142	0.970	20	WG513827
Toluene	mg/l	0.0247	0.0255	99.0	72-122	3.38	20	WG513827
Total Xylenes	mg/l	0.0795	0.0846	106.	75-128	6.26	20	WG513827
4-Bromofluorobenzene				103.3	75-128			WG513827
Dibromofluoromethane				106.1	79-125			WG513827
Toluene-d8				103.9	87-114			WG513827
a,a,a-Trifluorotoluene				107.0	84-114			WG513827

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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EnviroTech- NM
Lynn Berry
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Quality Assurance Report
Level II

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December 22, 2010

Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
PCB 1016	mg/l	0.000468	0.000464	94.0		49-105	0.971	25	WG513753
PCB 1260	mg/l	0.000524	0.000509	105.		46-126	2.89	34	WG513753
Decachlorobiphenyl				95.34		10-122.6			WG513753
Tetrachloro-m-xylene				92.07		15.3-114.2			WG513753

Analyte	Units	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res					
1,2-Dibromoethane	mg/l	0.0255	0	.025	102.	41-149	L494160-01	WG513827
1,2-Dichloroethane	mg/l	0.0259	0	.025	103.	29-167	L494160-01	WG513827
Benzene	mg/l	0.0246	0	.025	98.5	16-158	L494160-01	WG513827
Ethylbenzene	mg/l	0.0277	0	.025	111.	29-150	L494160-01	WG513827
Methyl tert-butyl ether	mg/l	0.0254	0	.025	102.	24-167	L494160-01	WG513827
Toluene	mg/l	0.0244	0	.025	97.7	22-152	L494160-01	WG513827
Total Xylenes	mg/l	0.0815	0	.075	109.	27-151	L494160-01	WG513827
4-Bromofluorobenzene					104.7	75-128		WG513827
Dibromofluoromethane					104.6	79-125		WG513827
Toluene-d8					101.9	87-114		WG513827
a,a,a-Trifluorotoluene					107.5	84-114		WG513827

Analyte	Units	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec				
1,2-Dibromoethane	mg/l	0.0251	0.0255	100.	41-149	1.49	21	L494160-01
1,2-Dichloroethane	mg/l	0.0252	0.0259	101.	29-167	2.52	21	L494160-01
Benzene	mg/l	0.0233	0.0246	93.1	16-158	5.67	21	L494160-01
Ethylbenzene	mg/l	0.0261	0.0277	104.	29-150	5.92	24	L494160-01
Methyl tert-butyl ether	mg/l	0.0248	0.0254	99.1	24-167	2.52	22	L494160-01
Toluene	mg/l	0.0237	0.0244	95.0	22-152	2.86	22	L494160-01
Total Xylenes	mg/l	0.0789	0.0815	105.	27-151	3.23	23	L494160-01
4-Bromofluorobenzene				104.1	75-128			WG513827
Dibromofluoromethane				102.8	79-125			WG513827
Toluene-d8				102.2	87-114			WG513827
a,a,a-Trifluorotoluene				108.0	84-114			WG513827

Batch number /Run number / Sample number cross reference

WG513827: R1508489: L494092-01 02
WG513753: R1509749: L494092-01 02

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

EnviroTech- NM
Lynn Berry
5796 US. Highway 64
Farmington, NM 87401

Quality Assurance Report
Level II

L494092

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

December 22, 2010

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address: EnviroTech- NM 5796 US. Highway 64 Farmington. NM 87401				Alternate billing information:				Analysis/Container/Preservative				Chain of Custody Page ___ of ___					
Report to: <u>Lynn Berry</u>				Email to: <u>lberry@envirotech-inc.com</u>				EDB PCB				Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859					
Project Description: <u>Marcotte #1</u>				City/State Collected								E074 CoCode: ENVIROFNN (lab use only) Template/Prelogin Shipped Via:					
Phone: <u>(505) 632-0615</u>				Client Project #: <u>92115-1532</u>										Remarks/Contaminant			
FAX:				ESG Key:												Sample # (lab only)	
Collected by: <u>Tom. McKnight</u>				Site/Facility ID#:													
Collected by (signature):				Rush? (Lab MUST Be Notified) _____ Same Day..... 200% _____ Next Day..... 100% _____ Two Day..... 50% _____ Three Day..... 25%				Date Results Needed: Email? ___No___Yes FAX? ___No___Yes									
Immediately Packed on Ice N ___ Y <u>X</u>				No. of Cntrs													
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time											
MW-2 - 56706			OT		12/9/10	12:30	✓		✓								
MW-3 - 56707			OT		12/9/10	14:00	✓		✓								

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other Aqueous

pH _____ Temp _____

Remarks:

9669 7460 0090

Flow _____ Other _____

Relinquished by: (Signature) <u>TRENTON KNOLK</u>	Date: 12/15/10	Time: 9:50	Received by: (Signature) 	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <u>3.12</u>	Bottles Received: <u>7</u>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>12/16/10</u>	Time: <u>0900</u>
				CoC Seals Intact <u>Y</u> <u>N</u> <u>NA</u> ☒	
				pH Checked: <u>NCF</u> ☒	



NON-CONFORMANCE FORM

Login No.: 1494092

Date: 12/16/10

Evaluated by: Dustin C

Client: ENVIRON

Non-Conformance (check applicable items)

- | | |
|---|--|
| ☐ Parameter(s) past holding time | ☒ Login Clarification Needed |
| ☐ Improper temperature | ☐ Chain of custody is incomplete |
| ☐ Improper container type | ☐ Chain of Custody is missing (see below) |
| ☐ Improper preservation | ☐ Broken container(s) (See below) |
| ☐ Container lid not intact | ☒ Broken container: sufficient sample
volume remains for analysis requested (See below) |

If no COC: Received by _____
Date: _____ Time: _____
Temp: _____ Cont. Rec. _____ pH: _____
☐ Fedex ☐ UPS ☐ SWA ☐ Other _____
Tracking # _____

- ☒ Insufficient packing material around container
☒ Insufficient packing material inside cooler
☐ Improper handling by carrier (FedEx / UPS / Courier)
☐ Sample was frozen

Comments: Received a broken liter for MW-2. One liter remaining. Received HCL vials for EDB. Does client want by 8260 or 8211?

Login Instructions:

TSR Initials: DC

Client informed by call / email / fax / voice mail date: 12/16 time: 11:15

Client contact: Notified client
Re: EDB as 8260 - note target compound

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-2	Date Reported:	12-20-10
Laboratory Number:	56706	Date Sampled:	12-09-10
Chain of custody:	10871	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-17-10
Preservative:	Cool	Date Concentrated:	12-15-10
Condition:	Intact	Analysis Requested:	8100

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Naphthalene	ND	0.001
Acenaphthylene	ND	0.001
Acenaphthene	ND	0.001
Fluorene	ND	0.001
Phenanthrene	ND	0.001
Anthracene	ND	0.001
Fluoranthene	ND	0.001
Pyrene	ND	0.001
Benzo[a]anthracene	ND	0.001
Chrysene	ND	0.001
Benzo(b)fluoranthene	ND	0.001
Benzo[k]fluoranthene	ND	0.001
Benzo(a)pyrene	ND	0.001
Indeno[1,2,3]pyrene	ND	0.001
Dibenzo[a,h]anthracene	ND	0.001
Benzo(g,h,i)perylene	ND	0.001

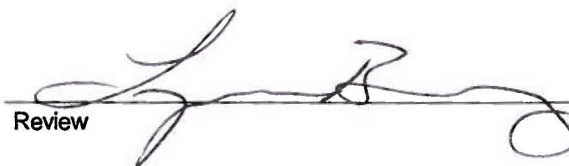
ND - Parameter not detected at the stated detection limit.

SURROGATE RECOVERY	Parameter	Percent Recovery
	1-fluoronaphthalene	102

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
 SW-846, USEPA, September 1986.

Comments: **Marcotte #1**


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-3	Date Reported:	12-20-10
Laboratory Number:	56707	Date Sampled:	12-09-10
Chain of custody:	10871	Date Received:	12-09-10
Sample Matrix:	Aqueous	Date Analyzed:	12-17-10
Preservative:	Cool	Date Concentrated:	12-15-10
Condition:	Intact	Analysis Requested:	8100

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Naphthalene	ND	0.001
Acenaphthylene	ND	0.001
Acenaphthene	ND	0.001
Fluorene	ND	0.001
Phenanthrene	ND	0.001
Anthracene	ND	0.001
Fluoranthene	ND	0.001
Pyrene	ND	0.001
Benzo[a]anthracene	ND	0.001
Chrysene	ND	0.001
Benzo(b)fluoranthene	ND	0.001
Benzo[k]fluoranthene	ND	0.001
Benzo(a)pyrene	ND	0.001
Indeno[1,2,3]pyrene	ND	0.001
Dibenzo[a,h]anthracene	ND	0.001
Benzo(g,h,i)perylene	ND	0.001

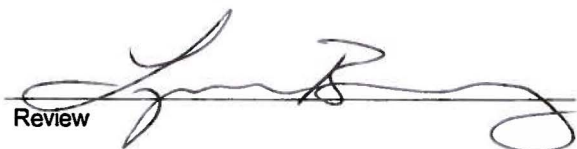
ND - Parameter not detected at the stated detection limit.

SURROGATE RECOVERY	Parameter	Percent Recovery
	1-fluoronaphthalene	87.7

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
 SW-846, USEPA, September 1986.

Comments: **Marcotte #1**


 Analyst


 Review

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

Client:	QA/QC	Project #:	QA/QC
Sample ID:	12/17 8100 LBlank	Date Reported:	12-20-10
Laboratory Number:	1217LCLK	Date Sampled:	N/A
Sample Matrix:	N/A	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-17-10
Condition:	N/A	Analysis Requested:	8100

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Naphthalene	ND	0.01
Acenaphthylene	ND	0.01
Acenaphthene	ND	0.01
Fluorene	ND	0.01
Phenanthrene	ND	0.01
Anthracene	ND	0.01
Fluoranthene	ND	0.01
Pyrene	ND	0.01
Benzo[a]anthracene	ND	0.01
Chrysene	ND	0.01
Benzo(b)fluoranthene	ND	0.01
Benzo[k]fluoranthene	ND	0.01
Benzo(a)pyrene	ND	0.01
Indeno[1,2,3]pyrene	ND	0.01
Dibenzo[a,h]anthracene	ND	0.01
Benzo(g,h,i)perylene	ND	0.01

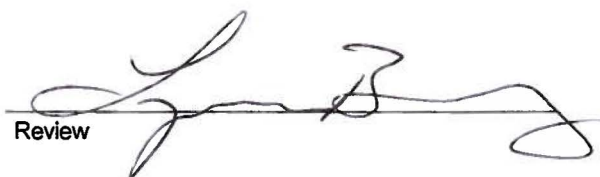
ND - Parameter not detected at the stated detection limit.

SURROGATE RECOVERY:	Parameter	Percent Recovery
	1-fluoronaphthalene	102

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
 SW-846, USEPA, September 1986.

Comments: QA/QC for Samples 56706 and 56707.


 Analyst


 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	12/17 8100 MBlank	Date Reported:	12-20-10
Laboratory Number:	1217MBLK QA/QC	Date Sampled:	N/A
Chain of custody:	N/A	Date Received:	N/A
Sample Matrix:	Aqueous	Date Analyzed:	12-17-10
Preservative:	N/A	Date Concentrated:	12-15-10
Condition:	N/A	Analysis Requested:	8100

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Naphthalene	ND	0.02
Acenaphthylene	ND	0.02
Acenaphthene	ND	0.02
Fluorene	ND	0.02
Phenanthrene	ND	0.02
Anthracene	ND	0.02
Fluoranthene	ND	0.02
Pyrene	ND	0.02
Benzo[a]anthracene	ND	0.02
Chrysene	ND	0.02
Benzo(b)fluoranthene	ND	0.02
Benzo[k]fluoranthene	ND	0.02
Benzo(a)pyrene	ND	0.02
Indeno[1,2,3]pyrene	ND	0.02
Dibenzo[a,h]anthracene	ND	0.02
Benzo(g,h,i)perylene	ND	0.02

ND - Parameter not detected at the stated detection limit.

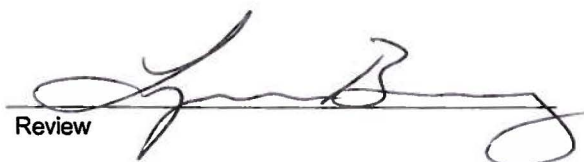
SURROGATE RECOVERY	Parameter	Percent Recovery
	1-fluoronaphthalene	103

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
 SW-846, USEPA, September 1986.

Comments: QA/QC for Samples 56706 and 56707.



 Analyst



 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	12/17 8100 Cal 200	Date Reported:	12-20-10
Laboratory Number:	1217P200 QA/QC	Date Sampled:	N/A
Chain of custody:	N/A	Date Received:	N/A
Sample Matrix:	N/A	Date Analyzed:	12-15-10
Preservative:	N/A	Date Concentrated:	N/A
Condition:	N/A	Analysis Requested:	8100

Parameter	Concentration (mg/L)	Result	% Recovered	% Recovery Limits
Naphthalene	200	194	96.8	80 - 120
Acenaphthylene	200	199	99.5	80 - 120
Acenaphthene	200	191	95.3	80 - 120
Fluorene	200	201	101	80 - 120
Phenanthrene	200	206	103	80 - 120
Anthracene	200	208	104	80 - 120
Fluoranthene	200	189	94.5	80 - 120
Pyrene	200	193	96.7	80 - 120
Benzo[a]anthracene	200	196	98.0	80 - 120
Chrysene	200	198	99.0	80 - 120
Benzo(b)fluoranthene	200	194	96.9	80 - 120
Benzo[k]fluoranthene	200	203	102	80 - 120
Benzo(a)pyrene	200	192	96.2	80 - 120
Indeno[1,2,3]pyrene	200	203	102	80 - 120
Dibenzo[a,h]anthracene	200	191	95.7	80 - 120
Benzo(g,h,i)perylene	200	193	96.4	80 - 120

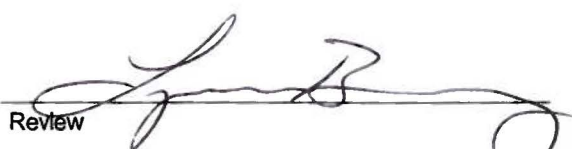
ND - Parameter not detected at the stated detection limit.

SURROGATE RECOVERY	Parameter	Percent Recovery
	1-fluoronaphthalene	106

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
 SW-846, USEPA, September 1986.

Comments: QA/QC for Samples 56706 and 56707.


 Analyst


 Review

Client: QA/QC
 Sample ID: sample duplicate
 Laboratory Number: 56706
 Sample Matrix: Aqueous
 Analysis Requested: 8100
 Condition: N/A

Project #: QA/QC
 Date Reported: 12-20-10
 Date Sampled: N/A
 Date Received: N/A
 Date Analyzed: 12-17-10

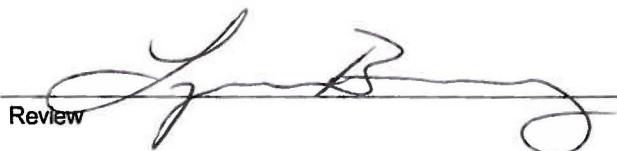
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Det. Limit (mg/L)	Percent Difference
Naphthalene	ND	ND	0.001	0.0%
Acenaphthylene	ND	ND	0.001	0.0%
Acenaphthene	ND	ND	0.001	0.0%
Fluorene	ND	ND	0.001	0.0%
Phenanthrene	ND	ND	0.001	0.0%
Anthracene	ND	ND	0.001	0.0%
Fluoranthene	ND	ND	0.001	0.0%
Pyrene	ND	ND	0.001	0.0%
Benzo[a]anthracene	ND	ND	0.001	0.0%
Chrysene	ND	ND	0.001	0.0%
Benzo(b)fluoranthene	ND	ND	0.001	0.0%
Benzo[k]fluoranthene	ND	ND	0.001	0.0%
Benzo(a)pyrene	ND	ND	0.001	0.0%
Indeno[1,2,3]pyrene	ND	ND	0.001	0.0%
Dibenzo[a,h]anthracene	ND	ND	0.001	0.0%
Benzo(g,h,i)perylene	ND	ND	0.001	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
 SW-846, USEPA, September 1986.

Comments: QA/QC for Samples 56706 and 56707.


 Analyst


 Review

Client: QA/QC
 Sample ID: Matrix Spike
 Laboratory Number: 56706
 Sample Matrix: Aqueous
 Analysis Requested: 8100
 Condition: N/A

Project #: QA/QC
 Date Reported: 12-20-10
 Date Sampled: N/A
 Date Received: N/A
 Date Analyzed: 12-17-10

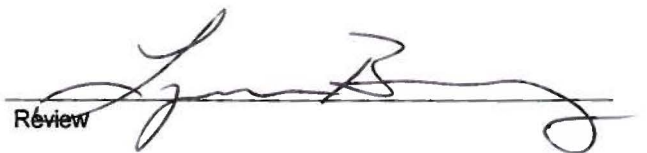
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Naphthalene	ND	100	108	0.001	108%	10-122
Acenaphthylene	ND	100	102	0.001	102%	10-139
Acenaphthene	ND	100	91.9	0.001	91.9%	10-124
Fluorene	ND	100	97.1	0.001	97.1%	10-142
Phenanthrene	ND	100	94.4	0.001	94.4%	10-155
Anthracene	ND	100	98.2	0.001	98.2%	10-126
Fluoranthene	ND	100	102	0.001	102%	14-123
Pyrene	ND	100	97.7	0.001	97.7%	10-140
Benzo[a]anthracene	ND	100	88.7	0.001	88.7%	10-116
Chrysene	ND	100	88.1	0.001	88.1%	12-135
Benzo(b)fluoranthene	ND	100	85.2	0.001	85.2%	10-199
Benzo[k]fluoranthene	ND	100	85.7	0.001	85.7%	10-150
Benzo(a)pyrene	ND	100	81.6	0.001	81.6%	10-159
Indeno[1,2,3]pyrene	ND	100	86.0	0.001	86.0%	10-128
Dibenzo[a,h]anthracene	ND	100	72.4	0.001	72.4%	10-110
Benzo(g,h,i)perylene	ND	100	72.8	0.001	72.8%	10-116

ND - Parameter not detected at the stated detection limit.

References: Method 8270, Semi-Volatile Organics by Capillary Column GC/MS
 SW-846, USEPA, September 1986.

Comments: QA/QC for Samples 56706 and 56707.


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-2	Date Reported:	01-03-11
Laboratory Number:	56706	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	TCLP Extract	Date Extracted:	12-14-10
Preservative:	Cool	Date Analyzed:	12-21-10
Condition:	Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)
o-Cresol	ND	0.010
p,m-Cresol	ND	0.010
2,4,6-Trichlorophenol	ND	0.010
2,4,5-Trichlorophenol	ND	0.010
Pentachlorophenol	ND	0.010

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	82.7%
	2,4,6-Tribromophenol	90.4%

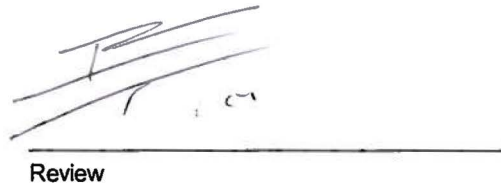
References: Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Marcotte #1**

Analyst 

Review 

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-3	Date Reported:	01-03-11
Laboratory Number:	56707	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	TCLP Extract	Date Extracted:	12-14-10
Preservative:	Cool	Date Analyzed:	12-21-10
Condition:	Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)
o-Cresol	ND	0.010
p,m-Cresol	ND	0.010
2,4,6-Trichlorophenol	ND	0.010
2,4,5-Trichlorophenol	ND	0.010
Pentachlorophenol	ND	0.010

ND - Parameter not detected at the stated detection limit.

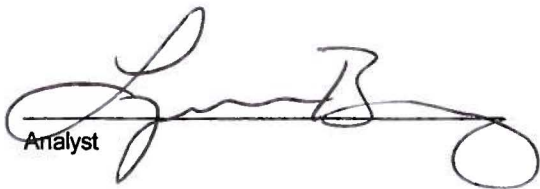
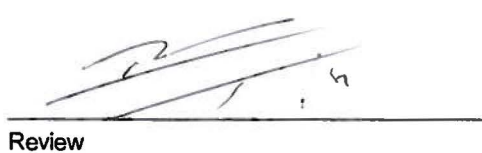
Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	88.3%
	2,4,6-Tribromophenol	91.2%

References: Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Marcotte #1**


Analyst
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	1221ABLK QA/QC	Date Reported:	01-03-11
Laboratory Number:	56706	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-21-10
Condition:	N/A	Analysis Requested:	TCLP

Blanks & Duplicate Conc (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample Conc (mg/Kg)	Duplicate	Percent Diff.
o-Cresol	ND	ND	0.010	ND	ND	0.0%
p,m-Cresol	ND	ND	0.010	ND	ND	0.0%
2,4,6-Trichlorophenol	ND	ND	0.010	ND	ND	0.0%
2,4,5-Trichlorophenol	ND	ND	0.010	ND	ND	0.0%
Pentachlorophenol	ND	ND	0.010	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
 Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.
 Method 8041, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Comments: **QA/QC for Sample 56706-56707.**



 Analyst



 Review

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-3	Date Reported:	01-03-11
Laboratory Number:	56707	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	TCLP Extract	Date Extracted:	12-14-10
Preservative:	Cool	Date Analyzed:	12-21-10
Condition:	Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)
Pyridine	ND	0.100
Hexachloroethane	ND	0.100
Nitrobenzene	ND	0.100
Hexachlorobutadiene	ND	0.100
2,4-Dinitrotoluene	ND	0.100
HexachloroBenzene	ND	0.100

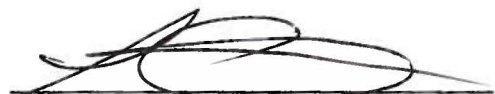
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorobiphenyl	96.4%

References: Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.
 Method 8270, Determination of Semi-Volatile Organics by Capillary Column GC/MS

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Marcotte #1**


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1532
Sample ID:	MW-2	Date Reported:	01-03-11
Laboratory Number:	56706	Date Sampled:	12-09-10
Chain of Custody:	10871	Date Received:	12-09-10
Sample Matrix:	TCLP Extract	Date Extracted:	12-14-10
Preservative:	Cool	Date Analyzed:	12-21-10
Condition:	Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)
Pyridine	ND	0.100
Hexachloroethane	ND	0.100
Nitrobenzene	ND	0.100
Hexachlorobutadiene	ND	0.100
2,4-Dinitrotoluene	ND	0.100
HexachloroBenzene	ND	0.100

ND - Parameter not detected at the stated detection limit.

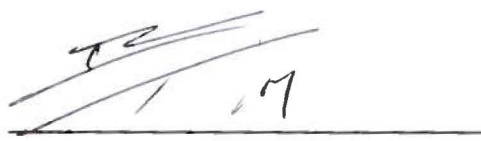
Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorobiphenyl	92.3%

References: Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.
 Method 8270, Determination of Semi-Volatile Organics by Capillary Column GC/MS

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Marcotte #1**


 Analyst


 Review

CHAIN OF CUSTODY RECORD

10871

Client: CONOCOPHILLIPS			Project Name / Location: MARCOTTE #1			ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: TONI MCKNIGHT			TPH (Method 8015) ☒ TOX Metals ☒ BTEX (Method 8021) ☒ VOC (Method 8260) ☒ RCRA 8 Metals ☒ Cation / Anion ☒ PCN⁻ NaOH ☒ TEP with HP ☒ EDB ☒ PAH - Cool ☒ TPH (418.1) ☒ CHLORIDE ☒ 8040/8090 - Cool ☒ Radio Nucleide ☒ Radium M - Cool ☒ Sample Cool ☒ Sample Intact ☒													
Client Phone No.:			Client No.: 92115-1532																

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative	TPH (Method 8015)	TOX Metals	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	PCN ⁻ NaOH	TEP with HP	EDB	PAH - Cool	TPH (418.1)	CHLORIDE	8040/8090 - Cool	Radio Nucleide	Radium M - Cool	Sample Cool	Sample Intact
MW-2	12/9/10	12:30	56706	Soil Sludge Aqueous	2-250mL 1-500mL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
				Soil Sludge Aqueous	2-125mL 5-1 Liter																		
				Soil Sludge Aqueous	1-1 Liter Amber Plastic																		
				Soil Sludge Aqueous	4-40mL Vials																		
MW-3	12/9/10	14:00	56707	Soil Sludge Aqueous	2-250mL 1-500mL 2-125mL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
				Soil Sludge Aqueous	4-1 Liter Amber Plastic																		
				Soil Sludge Aqueous	1-1 Liter Plastic																		
				Soil Sludge Aqueous	4-40mL Vials																		
				Soil Sludge Aqueous																			
				Soil Sludge Aqueous																			
				Soil Sludge Aqueous																			
				Soil Sludge Aqueous																			

Relinquished by: (Signature) <i>Toni McKnight</i>	Date 12/9/10	Time 15:55	Received by: (Signature) <i>[Signature]</i>	Date 12/9/10	Time 15:55
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		



ENVIROTECH INC.

FARMINGTON, NM 5796 HIGHWAY 64

MONITOR WELL DATA

Date: 12/9/10

Project No: 92115 - 1532

Project Name: GROUND WATER SAMPLING

Chain of Custody No: 10871

Location: MAR COTTLE #1

Project Manager: JONI YUKAWIG HT

Sampler: TONI WILKINSON

MONITOR WELL DATA

[illegible]

Notes: TOC = Top of Casing

Bailed = 3 well volumes:

1.25" well = 0.19 gal/ft.

2.00" well = 0.49 gal/ft.

4.00" well = 1.96 gal/ft.

Note well diameter if not one of the above.

$$\begin{array}{r} 21.3 \\ 87.90 \\ \hline 29.78 \\ 76.2 \end{array}$$

APPENDIX B

Field Notes