

**STATE OF  
COLORADO****EnviroScan - DNR, OGCC <dnr\_ogcc.enviroscan@state.co.us>**

DOC 2142421

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**NFA for Prebish #2 ~ SWNW S20=T4N-R64W ~ API #05-123-12068 ~ Facility ID#244274 ~ REM#8055**

1 message

**Eckman - DNR, Annie** <annie.eckman@state.co.us>

Tue, Nov 4, 2014 at 1:36 PM

To: jevans@nobleenergyinc.com

Cc: Robert Chesson - DNR &lt;robert.chesson@state.co.us&gt;, "EnviroScan, OGCC"

&lt;OGCC.EnviroScan@state.co.us&gt;, Katrina Andrus - DNR &lt;katrina.andrus@state.co.us&gt;

**Prebish #2 ~ SWNW S20=T4N-R64W ~ API #05-123-12068 ~ Facility ID#244274 ~ REM #8055**

COGCC has reviewed the No Further Action request submitted September 25, 2014, and concurs that no further action appears to be necessary at this time. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if ground water is found to be significantly impacted, further investigation and/or remediation activities may be required at the site. Spill Number [2145717](#) and Remediation Number 8055 have been closed in the COGIS database (document numbers [2146839](#) and [200416261](#), respectively). Note that surface reclamation must meet the COGCC 1004 series rules for vegetative cover.

The monitoring wells can be properly plugged and abandoned per Division of Water Resources standards (<http://water.state.co.us/DWRIPub/Documents/gws-09.pdf>).

Please retain a copy of this email as verification of release closure.

Thank you,  
Annie

**Ann C Eckman, PG**  
**Environmental Protection Specialist**

co\_dnr\_div\_ogcc\_300\_rgb\_ltrhd\_v3

P [303.894.2100](tel:303.894.2100) Ext 5124 | F [303.894.2109](tel:303.894.2109)

1120 Lincoln Street, Suite 801, Denver, CO 80203

[annie.eckman@state.co.us](mailto:annie.eckman@state.co.us) | [www.colorado.gov/cogcc](http://www.colorado.gov/cogcc)**Cc: REM#8055 with attachments**



**From:** [jevans@nobleenergyinc.com](mailto:jevans@nobleenergyinc.com) [mailto:[jevans@nobleenergyinc.com](mailto:jevans@nobleenergyinc.com)]

---

**Sent:** Tuesday, October 07, 2014 9:36 AM

**To:** Chesson, Robert

**Subject:** Prebish #2 Groundwater and NFA Request: REM#8055

Bob,

Please review the attached Groundwater Report and No further action request for the Prebish #2 location

Please contact me with questions

Thanks

Jacob



**Prebish #2 GW Closure Report Sept 2014.pdf**

3164K



# **FREMONT ENVIRONMENTAL INC.**

September 25, 2014

Mr. Jacob Evans  
Noble Energy Inc.  
1625 Broadway, Suite 2000  
Denver, CO 80202

Subject:      **Ground Water Monitoring and Closure Report**  
                  Prebish #2  
                  SWNW Sec 20, T4N, R64W  
                  API # 05-123-12068  
                  Weld County, Colorado  
                  Fremont Project No. C013-029  
                  Facility ID# 244274

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Ground Water Monitoring and Closure Report for the Prebish #2 site in Weld County, Colorado. The enclosed report describes monitoring and sampling efforts to assess ground water quality at the site. Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,  
**FREMONT ENVIRONMENTAL INC.**



Paul V. Henehan, P.E.  
Senior Consultant

Enclosure



**GROUND WATER MONITORING AND CLOSURE REPORT**

**NOBLE ENERGY INC.**

**PREBISH #2**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C012-029**

**COGCC FACILITY #244274**

**Prepared by:**

**Fremont Environmental Inc.  
12061 Pennsylvania Street, Suite B-101  
Thornton, CO 80241  
(303) 956-8714**

**September 25, 2014**



## **TABLE OF CONTENTS**

1.0 INTRODUCTION .....	1
2.0 BACKGROUND INFORMATION .....	1
2.1 Site Location .....	1
2.2 Site History .....	2
3.0 GROUND WATER MONITORING ACTIVITIES.....	3
3.1 Ground Water Level Measurements .....	3
3.2 Ground Water Sampling and Analysis .....	3
4.0 DISCUSSION .....	4
5.0 REMARKS.....	4

### **Table**

Table 1:      Summary of Ground Water Chemistry and Elevation Data

### **Figures**

Figure 1:      Site Location Map  
Figure 2:      Site Map  
Figure 3:      Ground Water Contour Map  
Figure 4:      Ground Water Chemistry Map

### **Appendices**

Appendix A:      Sampling Plan  
Appendix B:      Laboratory Documentation



# **GROUND WATER MONITORING AND CLOSURE REPORT**

**NOBLE ENERGY INC.**

**PREBISH #2**

**WELD COUNTY, COLORADO**

**FREMONT PROJECT NO. C012-029**

**COGCC FACILITY #244274**

## **1.0 INTRODUCTION**

The purpose of this document is to present ground water quality data collected subsequent to remediation by excavation at the Prebish #2 site in Weld County, Colorado. Impacted soil and ground water were identified at this location due to a release from the concrete water vault. Therefore, thirteen monitoring wells were installed on August 9, 2013 to delineate the magnitude and extent of subsurface impacts prior to excavation. Based on that initial investigation, an excavation project to remove petroleum impacted soil was conducted in September 2013. Additional monitoring wells were installed in November 2013 to replace those wells that were destroyed during the excavation.

Four consecutive quarters of ground water sampling indicate that all of the monitoring wells have concentrations that are below the Colorado Oil and Gas Conservation Commission's (COGCC's) Table 910-1 limits. Therefore, Noble Energy Inc. (Noble) requests that a No Further Action (NFA) determination be provided by the COGCC.

## **2.0 BACKGROUND INFORMATION**

### **2.1 Site Location**

The Prebish #2 facility is located approximately six miles south of Kersey, Colorado in Weld County as shown on Figure 1. The site includes one storage tank as well as separation and metering equipment.



The facility is located in an agricultural area 0.4 miles south of County Road 44 and 0.1 miles southeast of County Road 51. The location is further described as the SW  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  of section 20, township 4N, range 64W. A Site Map is included as Figure 2.

## **2.2 Site History**

The site is a natural gas production and oil storage facility for the Prebish #2 natural gas well. This well was drilled in 1985 to a depth of approximately 7,100 feet. Soil impacts were identified at the facility during replacement of the produced water vault.

Limited excavation of impacted soil adjacent to the water vault was conducted during the initial vault removal. Ground water was present in the excavation at a depth of approximately five feet.

On August 9, 2013, 13 monitoring wells were installed at the site to determine the magnitude and extent of subsurface impacts resulting from the release. Each of these wells were completed as flush-mounted monitoring wells as illustrated on the attached figures. Based on the information from this site investigation, it was determined that excavation of the petroleum impacted soil would be the most effective remedial approach.

Remediation efforts included the excavation of impacted soil adjacent to the concrete water vault and storage tank. A total of 1,780 cubic yards of soil were removed in September 2013 and the impacted soil was disposed of as non-hazardous waste. Gypsum was placed at the water table during backfilling to promote biodegradation of any residual petroleum in the soil and ground water.



As a result of the excavation, six monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-7 and MW-12) were destroyed. As shown on the attached figures, four additional wells (MW-14, MW-15, MW-16 and MW-17) have been installed to achieve point of compliance (POC) monitoring.

### **3.0 GROUND WATER MONITORING ACTIVITIES**

#### **3.1 Ground Water Level Measurements**

Ground water levels were measured in the nine available monitoring wells on August 18, 2014 in accordance with the Sampling Plan included in Appendix A. Monitoring well MW-10 could not be sampled because it was inundated with rain and irrigation water at the time. Further, well MW-14, which was installed upgradient from the former impacted area, could not be located. These ground water data are summarized in Table 1. Water table contours inferred from the August 2014 data are illustrated on Figure 3. Based on these data, ground water is inferred to flow generally to the southeast. The water table gradient was calculated at approximately 0.015 feet per foot (ft/ft) for the August 2014 data.

#### **3.2 Ground Water Sampling and Analysis**

Ground water samples were collected from the nine monitoring wells on August 18, 2014 to monitor the magnitude and extent of ground water impacts at the site. The ground water samples were submitted to eAnalytics Laboratory in Loveland, Colorado for analyses of benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260C. The ground water chemistry data is illustrated on Figure 4.

The laboratory data indicated that the BTEX constituents were all below their respective Colorado Oil and Gas Conservation Commission's (COGCC's) limits for the ground water samples as well as the laboratory's detection limits. The ground water analytical



data are summarized in Table 1. A copy of the laboratory reports, quality control data, and chain-of-custody documentation are presented in Appendix B.

#### **4.0 DISCUSSION**

Due to a release from the concrete water vault at the Prebish #2 location, monitoring wells were installed at the site to determine the extent of subsurface impacts. Based on this information, soil remediation was conducted at the site by extensive excavation of impacted soil in September 2013. Approximately 1,780 cubic yards of impacted soil were excavated and disposed of as non-hazardous waste at a landfill.

Ground water samples were collected in August 2014 from the nine available monitoring wells. The BTEX concentrations were below the COGCC Table 910-1 levels in all of the samples. The ground water flow direction has been inferred to flow to the southeast.

Four consecutive quarters of sampling and analyses of the site's monitoring wells have indicated that the ground water quality is below the COGCC's Table 910-1 BTEX concentrations. Therefore, Noble requests a No Further Action (NFA) determination be provided by the COGCC for this site. When the NFA is obtained, the monitoring wells will be plugged and abandoned.

#### **5.0 REMARKS**

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.



This report was prepared by **FREMONT ENVIRONMENTAL INC.**



---

Paul V. Henehan, P.E.

Senior Consultant

9/25/14  
Date\_\_\_\_\_



## TABLE



TABLE 1  
SUMMARY OF GROUND WATER ELEVATION DATA AND CHEMISTRY DATA  
NOBLE ENERGY INC.  
PREBISH #2, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C013-029

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	08/11/13	<1.0	<1.0	<1.0	<1.0	100.00	2.95	97.05	NP
	11/27/13	WD	WD	WD	WD	WD	WD	WD	WD
MW-2	08/11/13	209	<1.0	64.1	19.8	99.52	2.97	96.55	NP
	11/27/13	WD	WD	WD	WD	WD	WD	WD	WD
MW-3	08/11/13	<1.0	<1.0	<1.0	<1.0	98.91	3.13	95.78	NP
	11/27/13	WD	WD	WD	WD	WD	WD	WD	WD
MW-4	08/11/13	<1.0	<1.0	<1.0	<1.0	98.93	1.72	97.21	NP
	11/27/13	WD	WD	WD	WD	WD	WD	WD	WD
MW-5	08/11/13	<1.0	<1.0	<1.0	<1.0	99.71	2.40	97.31	NP
	11/27/13	<1.0	<1.0	<1.0	<1.0		1.62	98.09	NP
	02/17/14	Frozen	Frozen	Frozen	Frozen		Frozen	Frozen	Frozen
	04/25/14	<1.0	<1.0	<1.0	<1.0		2.32	97.39	NP
	08/18/14	<1.0	<1.0	<1.0	<1.0		0.65	99.06	NP
MW-6	08/11/13	<1.0	<1.0	<1.0	<1.0	98.98	2.59	96.39	NP
	11/27/13	<1.0	<1.0	<1.0	<1.0		1.20	97.78	NP
	02/17/14	<1.0	<1.0	<1.0	<1.0		1.93	97.05	NP
	04/25/14	<1.0	<1.0	<1.0	<1.0		1.97	97.01	NP
	08/18/14	<1.0	<1.0	<1.0	<1.0		0.61	98.37	NP
MW-7	08/11/13	255	<1.0	189	339	98.43	2.91	95.52	NP
	11/27/13	WD	WD	WD	WD	WD	WD	WD	WD
MW-8	08/11/13	<1.0	<1.0	<1.0	<1.0	98.37	2.77	95.60	NP
	11/27/13	<1.0	<1.0	<1.0	<1.0		1.21	97.16	NP
	02/17/14	<1.0	<1.0	<1.0	<1.0		1.64	96.73	NP
	04/25/14	<1.0	<1.0	<1.0	<1.0		1.99	96.38	NP
	08/18/14	<1.0	<1.0	<1.0	<1.0		0.74	97.63	NP
MW-9	08/11/13	<1.0	<1.0	<1.0	<1.0	99.10	3.39	95.71	NP
	11/27/13	<1.0	<1.0	<1.0	<1.0		2.24	96.86	NP
	02/17/14	<1.0	<1.0	<1.0	<1.0		2.59	96.51	NP
	04/25/14	<1.0	<1.0	<1.0	<1.0		2.86	96.24	NP
	08/18/14	<1.0	<1.0	<1.0	<1.0		1.52	97.58	NP
MW-10	08/11/13	<1.0	<1.0	<1.0	<1.0	98.09	2.62	95.47	NP
	11/27/13	<1.0	<1.0	<1.0	<1.0		0.70	97.39	NP
	02/17/14	Inundated	Inundated	Inundated	Inundated		Inundated	Inundated	Inundated



SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-10	04/25/14 08/18/14	<1.0 Inundated	<1.0 Inundated	<1.0 Inundated	<1.0 Inundated		1.41 Inundated	96.68 Inundated	NP Inundated
MW-11	08/11/13 11/27/13 02/17/14 04/25/14 08/18/14	<1.0 NF <1.0 <1.0 <1.0	<1.0 NF <1.0 <1.0 <1.0	<1.0 NF <1.0 <1.0 <1.0	<1.0 NF <1.0 <1.0 <1.0	99.14 NF	3.13 NF 2.67 3.02 1.83	96.01 NF 96.47 96.12 97.31	NP NF NP NP NP
MW-12	08/11/13 11/27/13	<1.0 WD	<1.0 WD	<1.0 WD	<1.0 WD	99.86 WD	2.99 WD	96.87 WD	NP WD
MW-13	08/11/13 11/27/13 02/17/14 04/25/14 08/18/14	<1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0 <1.0	99.06	9.51 1.62 2.40 2.95 2.18	89.55 97.44 96.66 96.11 96.88	NP NP NP NP NP
MW-14	11/27/13 02/17/14 04/25/14 08/18/14	<1.0 <1.0 <1.0 NF	<1.0 <1.0 <1.0 NF	<1.0 <1.0 <1.0 NF	<1.0 <1.0 <1.0 NF	99.00	0.65 0.60 1.51 NF	98.35 98.40 97.49 NF	NP NP NP NF
MW-15	11/27/13 02/17/14 04/25/14 08/18/14	2.2 <1.0 1.0 <1.0	<1.0 <1.0 <1.0 <1.0	1.9 <1.0 <1.0 <1.0	23.6 <1.0 <1.0 <1.0	98.60	1.04 1.72 1.57 0.48	97.56 96.88 97.03 98.12	NP NP NP NP
MW-16	11/27/13 02/17/14 04/25/14 08/18/14	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0	99.58	2.62 2.96 2.93 1.79	96.96 96.62 96.65 97.79	NP NP NP NP
MW-17	11/27/13 02/17/14 04/25/14 08/18/14	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0	<1.0 <1.0 <1.0 <1.0	99.52	2.17 1.93 4.53 1.32	97.35 97.59 94.99 98.20	NP NP NP NP
Table 910-1 Limits		5	560	700	1,400				

Bold face values exceed the COGCC limits

NP - No Free Product

WD - well destroyed during excavation of impacted soil

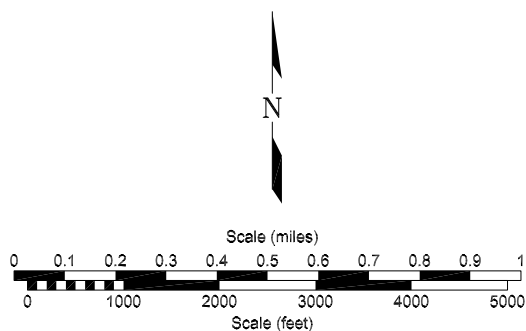
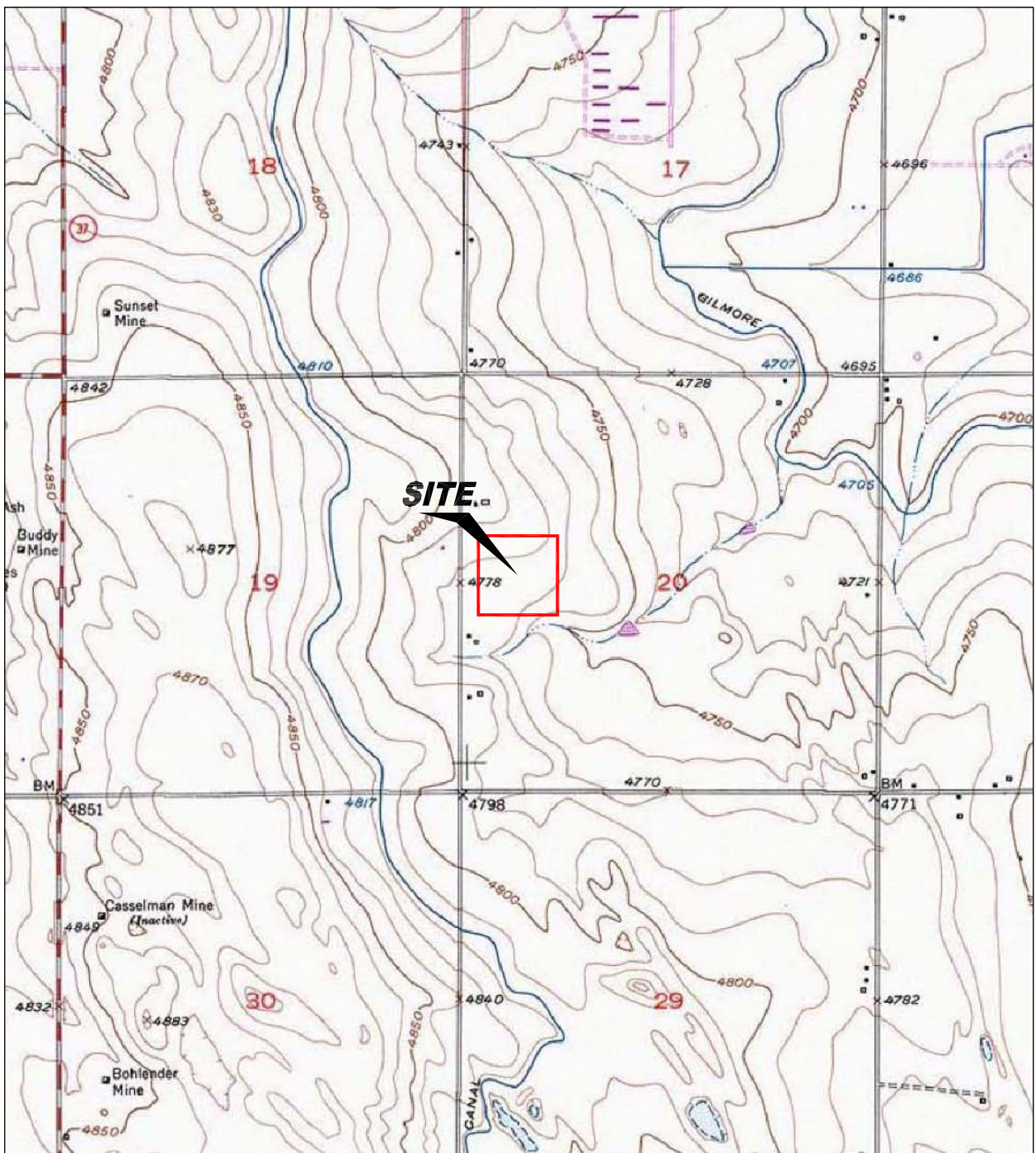
Frozen - MW-5 well head/vault was full of ice on 2/17/14 and could not be accessed

Inundated - MW-10, which is in a low-lying area, has been inundated with rain water occasionally



## **FIGURES**





USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

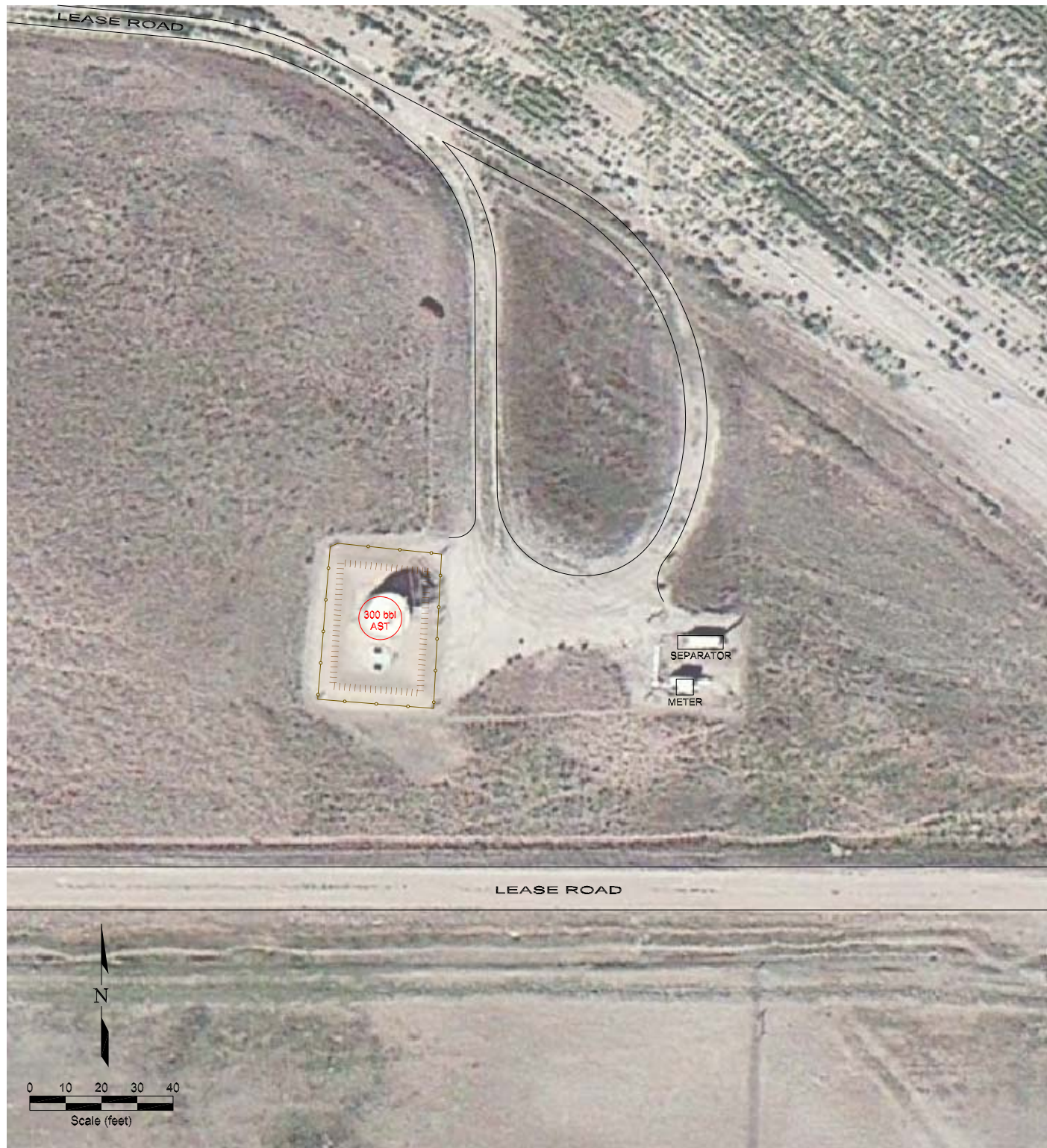
Figure 1  
SITE LOCATION MAP

**Noble - Prebush #2**  
SW NW Section 20, T4N, R64W  
Weld County, Colorado

Project No. <b>C013-029</b>	Prepared by	Drawn by <b>JMA</b>
Date <b>8/8/13</b>	Reviewed by	Filename <b>13029T</b>







#### LEGEND

- FENCE LINE
- BERM
- ABOVE GROUND STORAGE TANK

Figure 2

#### SITE MAP

**Noble - Prebish #2**  
 SW NW Section 20, T4N, R64W  
 Weld County, Colorado

Project No.  
C013-029

Prepared by

Drawn by  
JMA

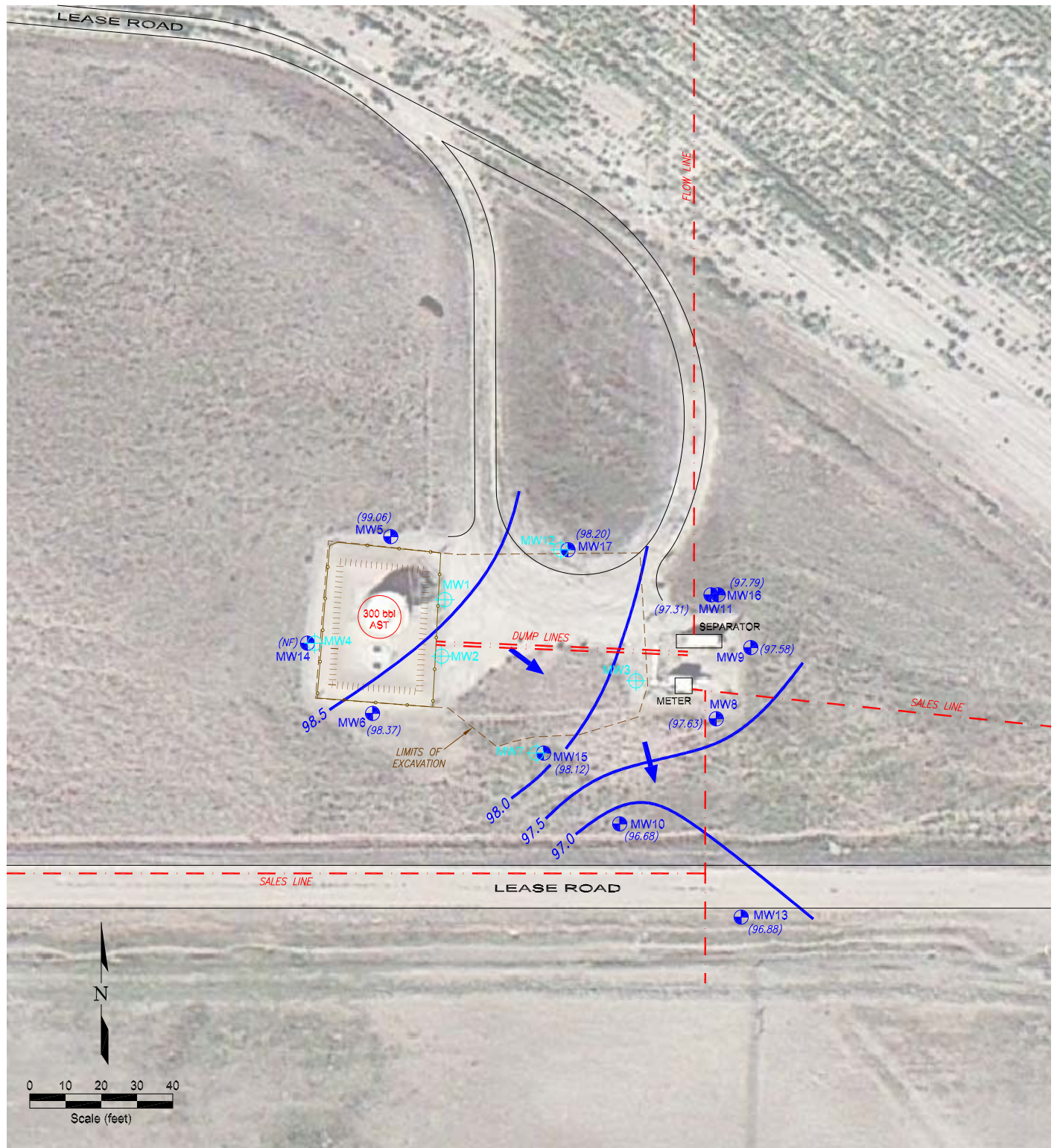
Date  
8/8/13

Reviewed by

Filename  
13029Q







#### LEGEND








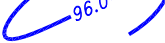


-  MONITORING WELL
-  DESTROYED MONITORING WELL
-  FENCE LINE
-  BERM
-  PIPELINE
-  ABOVE GROUND STORAGE TANK
-  GROUND WATER ELEVATION (ft above arbitrary datum)
-  WATER TABLE CONTOUR
-  GROUND WATER FLOW DIRECTION
-  NOT FOUND

Figure 3  
INFERRED GROUNDWATER CONTOUR  
AUGUST 18, 2014

Noble - Prebish #2  
SW NW Section 20, T4N, R64W  
Weld County, Colorado

Project No.  
C013-029

Prepared by

Drawn by  
JMA

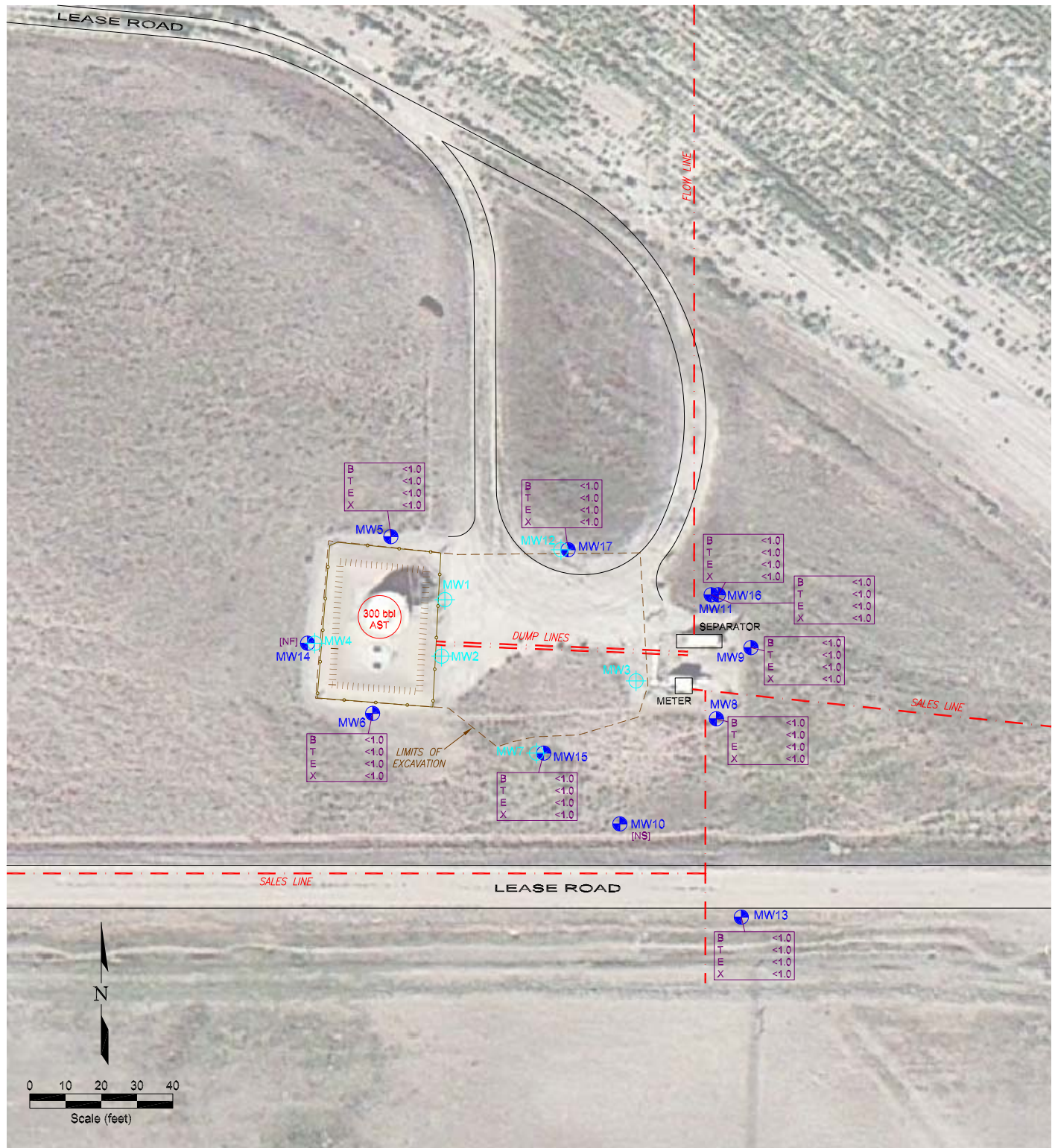
Date  
9/22/14

Reviewed by

Filename  
13029Q







#### LEGEND

	MONITORING WELL
	DESTROYED MONITORING WELL
	FENCE LINE
	BERM
	PIPELINE
	ABOVE GROUND STORAGE TANK
	BENZENE (ug/L)
	TOLUENE (ug/L)
	ETHYLBENZENE (ug/L)
	TOTAL XYLENES (ug/L)
NS	NOT SAMPLED
NF	NOT FOUND

Figure 4  
GROUND WATER CHEMISTRY MAP  
AUGUST 18, 2014

Noble - Prebish #2  
SW NW Section 20, T4N, R64W  
Weld County, Colorado

Project No.  
C013-029

Prepared by

Drawn by  
JMA

Date  
9/22/14

Reviewed by

Filename  
13029Q





**APPENDIX A**

**SAMPLING PLAN**



## SAMPLING METHODS AND PROCEDURES

### Water Level Measurements

All ground water level measurements will be obtained using an electric measuring device, which indicates when a probe is in contact with ground water. Measurements will be obtained by lowering the device into the well until the water surface had been encountered, and by measuring the distance from the top of the inside riser pipe to the probe. All of the measurements will be recorded to the nearest 0.01 ft. To minimize cross-contamination, the water level indicator will be decontaminated with isopropyl alcohol and distilled water between each well.

### Monitoring Well Sampling

All monitoring wells were sampled from the “cleanest” to the “most contaminated” according to the protocols listed below.

#### Field Protocol

- |        |  |
|--------|--|
| Step 1 | Measure water level in each well.  |
| Step 2 | Purge each monitoring well by evacuating a minimum of three well bore volumes using a disposable polyethylene bailer.    |
| Step 3 | Collect water samples using a disposable polyethylene bailer.  |
| Step 4 | Cool samples to approximately 4°C for transportation.  |
| Step 5 | Store water samples and transport to a specific laboratory, following all documentation and chain-of-custody procedures. |

Upon completion of ground water sampling, a chain-of-custody log will be completed. Chain-of-custody records include the following information: project, project number, shipped by, shipped to, suspected hazard, sampling point, location, field identification number, date collected, sample type, number of containers, analysis required, and sampler's signature.



The chain-of-custody records will be shipped with the samples to the laboratory. Upon arrival at the laboratory the samples will be checked in and signed by the appropriate laboratory personnel. Laboratory identification numbers will be noted on the chain-of-custody record. Upon completion of the laboratory analysis, the completed chain-of-custody record will be returned to the project manager.

### **Analytical Methods**

The following list identifies the various chemical constituents and analytical methods which will be used for their quantification.

<u>Chemical Parameter</u>	<u>Method</u>
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	EPA Method – 8260C



**APPENDIX B**

**LABORATORY DOCUMENTATION**



# Test Report



August 21, 2014

Client: Fremont Environmental / Noble Energy

Project: Prebish #2

Lab ID: 1974

Date Samples Received: 8/18/2014

Number of Samples: 9

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Dieken".

Christopher Dieken  
Quality Assurance Manager

A handwritten signature in black ink, appearing to read "Todd Rhea".

Todd Rhea  
Laboratory Manager

**eAnalytics Laboratory**

1767 Rocky Mountain Avenue Loveland CO 80538



## Chain of Custody

**e**ANALYTICS  
LABORATORY

Chain of Custody Form

# eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538

Phone: (970) 667-6975

Fax: (970) 669-0941

www.eAnalyticsLab.com

**CLIENT INFORMATION**

(\*New Clients please fill out completely)

**ANALYSIS INFORMATION**

(Select analysis by checking box on corresponding sample line)

Company: Fremont Environmental

Project: C013-D29 Prebrush #2

Project Manager: Paul Henehan

Sampler: Mark T

Phone/Email: 303-956-8714

Address: P.O. Box 1289  
Wellington CO 80549

Lab ID	Sample Name	Sampling Date/Time
--------	-------------	--------------------

Number of Containers

Matrix:(S) Soil (W) Water (V) Vapor (O) Other

BTX (EPA 8260)

BTEX Naphthalene (EPA 8260)

TPH - GRO/DKO (EPA 8260/8015)

SAR (US Dept of Ag Method 20B)

EC (US Dept of Ag Method 3)

pH (EPA 9045D)

Other Analysis

1	Mw 5	8/18 AM / PM
2	Mw 6	
3	8	
4	9	
5	11	
6	13	
7	15	
8	16	
9	17	
		AM / PM
		AM / PM
		AM / PM
		AM / PM
		AM / PM
		AM / PM
		AM / PM
		AM / PM
		AM / PM
		AM / PM

2w

X

Comments:

**Turnaround Time (Business Days)**

TAT begins when sample is received by eANALYTICS

☒ Normal (5-10 Days)  
☐ 3 Day (1.25x)  
☐ 2 Day (1.5x)  
☐ 1 Day (2x)  
☐ Next Bus Morning (Noble Pricing)

**For eANALYTICS Use**

Samples Received Intact Yes / No

Received Within Temperature Range (2-6°C) Yes / No

Sample Preservative Ice Acid None Other

**Record of Custody**

Relinquished by:

Company: FREMONT ENVIRONMENTAL

Received by:

Company:

Relinquished by:

Company:

Date 8/18

Time 1600 AM / PM

Date

Time

AM / PM

Date

Time 8/18 1600 AM / PM

WO# 1974

**eANALYTICS: Environmental testing made Easy**

Page of

## eAnalytics Laboratory

1767 Rocky Mountain Avenue Loveland CO 80538

The results contained within this report relate only to the items analyzed



**e**ANALYTICS  
LABORATORY

Client: Fremont Environmental / Noble Energy      Lab ID: 1974

Project: Prebish #2

Analysis: Volatile Organics      Method: EPA8260

Sample Name	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Total Xylenes ug/L	Date Sampled	Date Analyzed	Lab ID
MW5	< 1.0	< 1.0	< 1.0	< 1.0	08/18/14	08/19/14	1974 1
MW6	< 1.0	< 1.0	< 1.0	< 1.0	08/18/14	08/19/14	1974 2
MW8	< 1.0	< 1.0	< 1.0	< 1.0	08/18/14	08/19/14	1974 3
MW9	< 1.0	< 1.0	< 1.0	< 1.0	08/18/14	08/19/14	1974 4
MW11	< 1.0	< 1.0	< 1.0	< 1.0	08/18/14	08/19/14	1974 5
MW13	< 1.0	< 1.0	< 1.0	< 1.0	08/18/14	08/19/14	1974 6
MW15	< 1.0	< 1.0	< 1.0	< 1.0	08/18/14	08/19/14	1974 7
MW16	< 1.0	< 1.0	< 1.0	< 1.0	08/18/14	08/19/14	1974 8
MW17	< 1.0	< 1.0	< 1.0	< 1.0	08/18/14	08/19/14	1974 9

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L A B O R A T O R Y

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Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
MW5	93	104	91	89	08/18/14	08/19/14	1974 1
MW6	93	92	91	93	08/18/14	08/19/14	1974 2
MW8	103	102	106	101	08/18/14	08/19/14	1974 3
MW9	91	91	89	109	08/18/14	08/19/14	1974 4
MW11	100	91	107	90	08/18/14	08/19/14	1974 5
MW13	93	89	94	88	08/18/14	08/19/14	1974 6
MW15	93	103	99	100	08/18/14	08/19/14	1974 7
MW16	93	86	100	96	08/18/14	08/19/14	1974 8
MW17	106	95	105	86	08/18/14	08/19/14	1974 9

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Sample Name	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Date Analyzed	Lab ID		
	% Rec	% Rec	% Rec	% Rec				
Laboratory Control Sample	99	90	94	90	08/19/14	LCS	1974	1
(70-130%)								
Method Blank	< 1.0	< 1.0	< 1.0	< 1.0	08/19/14	MB	1974	1
	ug/L	ug/L	ug/L	ug/L				

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