

Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY AND SITE CLOSURE REQUEST

**BOPCO, LP
PLU-CVX-JV-RR #010H
API 30-015-42158
Eddy County, New Mexico
Unit Letter "P" (SE/SE), Section 17, Township 25 South, Range 30
East Latitude 32.12386° North, Longitude 103.89703° West
NMOCD Reference #2RP-2614**

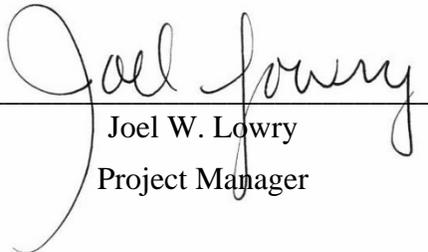
Prepared For:

**BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, New Mexico 88220**

Prepared By:

**Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260**

February 2015



Joel W. Lowry
Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Site Closure Request* for the release site known as PLU-CVX-JV-RR #010H (Ross Ranch #010H). The legal description of the release site is Unit Letter "P" (SE/SE), Section 17, Township 25 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.12386° North latitude and 103.89703° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). A "Site Location Map" is provided as Figure 1.

On November 14, 2014, a release occurred during fracking activities at the PLU-CVX-JV-RR #010H Well. The "Release Notification and Corrective Action" (Form C-141) indicated a two-inch (2") bleed-off line ruptured while fracking the well, resulting in the release of approximately sixty-nine barrels (69 bbls) of produced water. The New Mexico Oil Conservation Division (NMOCD) Artesia District Office was notified of the release immediately. During initial response activities the bleed-off line was repaired, and a vacuum truck was used to recover approximately sixty barrels (60 bbls) of fluid from within the frac containments. Spray from the release misted approximately eleven thousand, nine hundred forty square feet (11,940 ft²) of the caliche well pad. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 17, Township 25 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred twenty-five feet (225') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the Ross Ranch #010H release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) – 50 mg/Kg (ppm)
- Total Petroleum Hydrocarbons (TPH) – 5,000 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On January 15, 2015, Basin began excavating impacted soil at the release site. The floor and sidewalls of the excavation were advanced until field tests suggested concentrations of BTEX, TPH and chloride were below NMOCD regulatory guidelines. Excavated soil was stockpiled on-site, pending final disposition.

On January 19, 2015, five (5) confirmation soil samples (A5 N. Wall @ 1', A5 Floor @ 1', A6 E. Wall @ 1', A6 N. Wall @ 1' and A6 Floor @ 1') were collected from the excavated area and submitted to Cardinal Laboratories for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 528 ppm for soil sample A6 E. Wall @ 1' to 64.0 ppm for soil sample A5 N. Wall @ 1'. Soil sample A6 Floor @ 1' was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory method detection limit (MDL). A summary of "Concentrations of Benzene, BTEX, TPH & Chloride in Soil" is provided in Table 1. A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

On January 20, 2015, eight (8) confirmation soil samples (E. Wall @ 50', A3 W. Wall @ 1', A3 Floor @ 1', A3 @ 1', B4 @ 1', B6 E. Wall @ 1', B6 Floor @ 1' and B6 @ 50' Floor @ 1') were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 640 ppm for soil sample B6 E. Wall @ 1' to 144 ppm for soil sample B6 @ 50' Floor @ 1'. Soil sample B6 @ 50' Floor @ 1' was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. Excavation activities continued toward the south.

On January 23, 2015, two (2) confirmation soil samples (C4 @ 1' and C5 @ 1') were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated soil sample C4 @ 1' exhibited a chloride concentration of 160 ppm and soil sample C5 @ 1' exhibited a chloride concentration of 144 ppm. Soil sample C5 @ 1' was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. Excavation activities continued toward the south.

On January 27, 2015, five (5) confirmation soil samples (B #3, B #5, C #6, D #4 and D #6) were collected from the remediation site and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentrations ranged from 608 ppm for soil sample B #5 to <16.0 ppm for soil sample C #6. Excavation activities continued toward the south.

On January 28, 2015, nine (9) confirmation soil samples (A #2, A #4, B #2, C #2, C #3, D #1, D #3, D #5 and E #6) were collected from the remediation site and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentrations ranged from 624 ppm for soil sample D #3 to 64.0 ppm for soil sample D #5. Excavation activities continued toward the south.

On January 29, 2015, three (3) confirmation soil samples (E #4 @ 1', E #5 @ 2' and F #5 @ Surf.) were collected from the remediation site and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentrations ranged from 672 ppm for soil sample E #5 @ 2' to 32.0 ppm for soil samples E #4 @ 1' and F #5 @ Surf. Excavation activities continued toward the south.

On February 4, 2015, eight (8) confirmation soil samples (D #2 @ 1', F #1 @ 1', F #2 @ 1', F #3 @ 3', E #1 @ Surface, E #2 @ 1', E #3 @ 1' and E #4 @ 1') were collected from the remediation site and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentrations ranged from 512 ppm for soil sample D #2 @ 1' to 112 ppm for soil sample F #2 @ 1'.

The final dimensions of the excavation were approximately one hundred forty (140) to one hundred eighty feet (180') in width, two hundred sixty feet (260') in length and one (1) to three feet (3') in depth. Upon receiving laboratory analytical data from confirmation soil samples, the excavated area was backfilled with locally purchased, non-impacted caliche. Following backfilling, areas affected by the remediation activities were compacted and contoured to meet the needs of the well pad.

Between January 21, and February 9, 2015, approximately three thousand, three hundred and sixty cubic yards (3360 yd³) of impacted material was transported to Lea Land, Inc. (NMOCD Permit #WM-01- 035) for disposal.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories, Inc., in Hobbs, New Mexico, for BTEX, TPH and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 4500 Cl-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Confirmation soil samples collected from the excavated area at the Ross Ranch #010H remediation site were analyzed by an NMOCD-approved laboratory, which determined concentrations of BTEX, TPH and chloride were less than NMOCD regulatory standards in each of the submitted soil samples. Based on these laboratory analytical results, Basin recommends BOPCO provide the NMOCD-Artesia District Office and the BLM a copy of this *Remediation Summary and Site Closure Request* and request the NMOCD grant site closure to the Ross Ranch #010H release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

7.0 DISTRIBUTION:

Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 2)
1301 E. Grand Avenue
Artesia, NM 88210

Copy 2: James Amos
Bureau of Land Management
602 E. Greene Street
Carlsbad, New Mexico 88220

Copy 3: Tony Savoie
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220

Copy 4: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, NM 88260

FIGURES

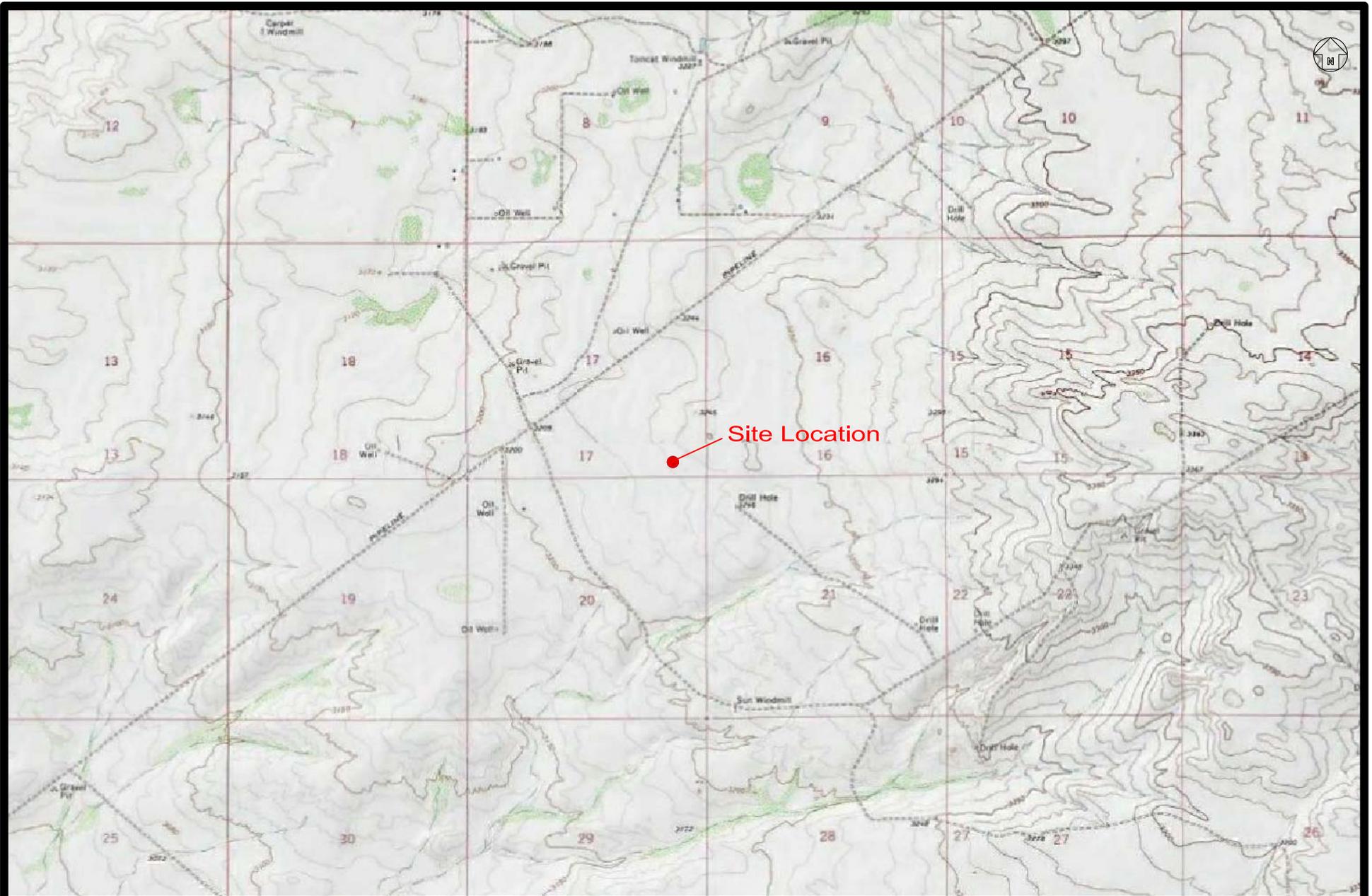


Figure 1
 Site Location Map
 BOPCO, LP
 PLU-CVX-JV-RR #010H
 Eddy County, New Mexico
 NMOCD Ref# 2RP-2614

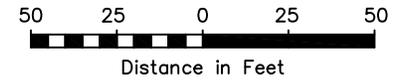
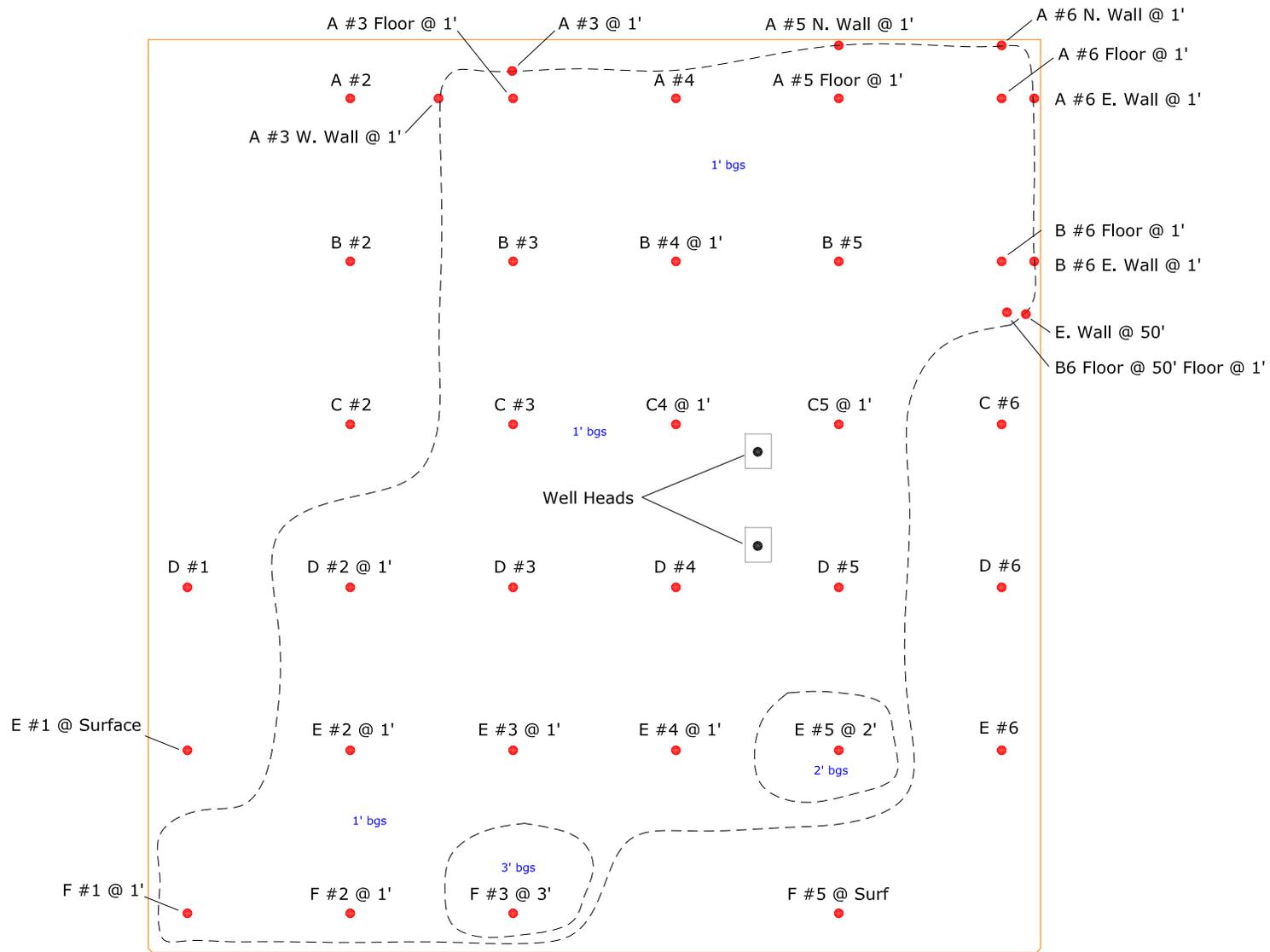
Basin Environmental Service Technologies

Prep By: JWL

Checked By: BJA

February 23, 2015

Scale 1"=3000'



Legend:

- Excavation Extent
- Sample Location
- Caliche Well Pad

Figure 2
 Site & Sample Location Map
 BOPCO, L.P.
 PLU-CVX-JV-RR #010H
 Eddy County, New Mexico
 NMOCD Ref # 2RP-2614

Basin Environmental Services

Prep By: JWL	Checked By: BJA
February 12, 2015	Scale 1"=50'

TABLES

**TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**

**BOPCO, LP
PLU-CVX-JV-RR #010H
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-2614**

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	4500 Cl-B CHLORIDE (mg/Kg)
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)		
A5 N. Wall @ 1'	1'	1/19/2015	In-Situ	-	-	-	-	-	-	-	-	-	64.0
A5 Floor @ 1'	1'	1/19/2015	In-Situ	-	-	-	-	-	-	-	-	-	176
A6 E. Wall @ 1'	1'	1/19/2015	In-Situ	-	-	-	-	-	-	-	-	-	528
A6 N. Wall @ 1'	1'	1/19/2015	In-Situ	-	-	-	-	-	-	-	-	-	352
A6 Floor @ 1'	1'	1/19/2015	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
E. Wall @ 50'	1'	1/20/2015	In-Situ	-	-	-	-	-	-	-	-	-	528
A3 W. Wall @ 1'	1'	1/20/2015	In-Situ	-	-	-	-	-	-	-	-	-	192
A3 Floor @ 1'	1'	1/20/2015	In-Situ	-	-	-	-	-	-	-	-	-	272
A3 @ 1'	1'	1/20/2015	In-Situ	-	-	-	-	-	-	-	-	-	336
B4 @ 1'	1'	1/20/2015	In-Situ	-	-	-	-	-	-	-	-	-	400
B6 E. Wall @ 1'	1'	1/20/2015	In-Situ	-	-	-	-	-	-	-	-	-	640
B6 Floor @ 1'	1'	1/20/2015	In-Situ	-	-	-	-	-	-	-	-	-	160
B6 @ 50' Floor @ 1'	1'	1/20/2015	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
C4 @ 1'	1'	1/23/2015	In-Situ	-	-	-	-	-	-	-	-	-	160
C5 @ 1'	1'	1/23/2015	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
B #3	1'	1/27/2015	In-Situ	-	-	-	-	-	-	-	-	-	448
B #5	1'	1/27/2015	In-Situ	-	-	-	-	-	-	-	-	-	608
C #6	Surface	1/27/2015	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
D #4	1'	1/27/2015	In-Situ	-	-	-	-	-	-	-	-	-	32.0
D #6	Surface	1/27/2015	In-Situ	-	-	-	-	-	-	-	-	-	80.0
A #2	Surface	1/28/2015	In-Situ	-	-	-	-	-	-	-	-	-	272
A #4	1'	1/28/2015	In-Situ	-	-	-	-	-	-	-	-	-	208
B #2	Surface	1/28/2015	In-Situ	-	-	-	-	-	-	-	-	-	352
C #2	Surface	1/28/2015	In-Situ	-	-	-	-	-	-	-	-	-	480
C #3	1'	1/28/2015	In-Situ	-	-	-	-	-	-	-	-	-	192
D #1	Surface	1/28/2015	In-Situ	-	-	-	-	-	-	-	-	-	368
D #3	1'	1/28/2015	In-Situ	-	-	-	-	-	-	-	-	-	624
D #5	1'	1/28/2015	In-Situ	-	-	-	-	-	-	-	-	-	64.0
E #6	Surface	1/28/2015	In-Situ	-	-	-	-	-	-	-	-	-	96.0
E #4 @ 1'	1'	1/29/2015	In-Situ	-	-	-	-	-	-	-	-	-	32.0
E #5 @ 2'	2'	1/29/2015	In-Situ	-	-	-	-	-	-	-	-	-	672
F #5 @ Surf.	Surface	1/29/2015	In-Situ	-	-	-	-	-	-	-	-	-	32.0
D #2 @ 1'	1'	2/4/2015	In-Situ	-	-	-	-	-	-	-	-	-	512
F #1 @ 1'	1'	2/4/2015	In-Situ	-	-	-	-	-	-	-	-	-	208
F #2 @ 1'	1'	2/4/2015	In-Situ	-	-	-	-	-	-	-	-	-	112
F #3 @ 3'	3'	2/4/2015	In-Situ	-	-	-	-	-	-	-	-	-	192
E #1 @ Surface	Surface	2/4/2015	In-Situ	-	-	-	-	-	-	-	-	-	256
E #2 @ 1'	1'	2/4/2015	In-Situ	-	-	-	-	-	-	-	-	-	240
E #3 @ 1'	1'	2/4/2015	In-Situ	-	-	-	-	-	-	-	-	-	384
E #4 @ 1'	1'	2/4/2015	In-Situ	-	-	-	-	-	-	-	-	-	160
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

APPENDICES

Appendix A
Release Notification and Corrective Action
(Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NABI 43244 2278 OPERATOR Initial Report Final Report

Name of Company: BOPCO, L.P. <i>2100737</i>	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU-CVX-JV-RR #010H	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-42158
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LOCATION OF RELEASE

Unit Letter P	Section 17	Township 25S	Range 30E	Feet from the 290	North/South Line South	Feet from the 675	East/West Line East	County Eddy
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Latitude N 32.12386 Longitude W 103.89703

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 69 bbls.	Volume Recovered: 60 bbls
Source of Release: 2" bleed off line	Date and Hour of Occurrence: 11/14/14 at approx. 1:00 p.m.	Date and Hour of Discovery: 11/14/14 at approximately 1:00 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? H. Patterson voice mail	
By Whom? Amy Ruth	Date and Hour: 11/14/14 at 3:30 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 18 2014

Describe Cause of Problem and Remedial Action Taken.* While fracking the well a 2" bleed off line ruptured. The line was repaired and the frac continued.	RECEIVED
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Describe Area Affected and Cleanup Action Taken.*
The frac pumps and lines were contained inside 0 perm containment with 6" walls; the spray from the ruptured line misted an area on the well pad measuring approximately 11,940 sq.ft. Sixty barrels of produced water was recovered from the containments. The remainder of the fluid soaked into the ground.
The impacted area will be cleaned up in accordance to the NMOCD and BLM remediation guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Tony Savoie</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Tony Savoie	Signed By <i>Mike Beardslee</i> Approved by Environmental Specialist:	
Title: Waste Management and Remediation Specialist	Approval Date: <i>11/19/14</i>	Expiration Date: <i>N/A</i>
E-mail Address: <i>tasavoie@basspet.com</i>	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines	Attached <input type="checkbox"/>
Date: <i>11/18/14</i> Phone: 432-556-8730	SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <i>12/19/14</i>	

* Attach Additional Sheets If Necessary

2RP-2014

Appendix B

Photographs



Photograph of surface staining at the PLU-CVX-JV-RR #010H release site.



Photograph of surface staining at the PLU-CVX-JV-RR #010H release site.



Photograph of excavation activities at the PLU-CVX-JV-RR #010H release site.



Photograph of excavation activities at the PLU-CVX-JV-RR #010H release site.



Photograph of backfilling activities at the PLU-CVX-JV-RR #010H release site.



Photograph of the PLU-CVX-JV-RR #010H release site after remediation activities.

Appendix C

Laboratory Analytical Reports



January 23, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU CVX JV RR #010 H

Enclosed are the results of analyses for samples received by the laboratory on 01/21/15 11:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" and "K".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/21/2015	Sampling Date:	01/20/2015
Reported:	01/23/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: E. WALL @ 50' (H500193-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/21/2015	ND	400	100	400	3.92	

Sample ID: A3 W. WALL @ 1' (H500193-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/21/2015	ND	416	104	400	0.00	

Sample ID: A3 FLOOR @ 1' (H500193-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/21/2015	ND	416	104	400	0.00	

Sample ID: A3 @ 1' (H500193-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/21/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 01/21/2015
 Reported: 01/23/2015
 Project Name: PLU CVX JV RR #010 H
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/20/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: B4 @ 1' (H500193-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/21/2015	ND	416	104	400	0.00	

Sample ID: B6 E. WALL @ 1' (H500193-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/21/2015	ND	416	104	400	0.00	

Sample ID: B6 FLOOR @ 1' (H500193-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/21/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/21/2015	Sampling Date:	01/20/2015
Reported:	01/23/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: B6 @ 50' FLOOR @ 1' (H500193-08)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2015	ND	1.58	78.8	2.00	14.6		
Toluene*	<0.050	0.050	01/22/2015	ND	1.51	75.7	2.00	15.2		
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.44	72.0	2.00	15.8		
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.34	72.3	6.00	16.4		
Total BTEX	<0.300	0.300	01/22/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/21/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/21/2015	ND	192	95.9	200	2.00		
DRO >C10-C28	<10.0	10.0	01/21/2015	ND	191	95.6	200	0.476		
EXT DRO >C28-C35	<10.0	10.0	01/21/2015	ND						

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/21/2015	Sampling Date:	01/19/2015
Reported:	01/23/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: A5 N. WALL @ 1' (H500193-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/21/2015	ND	416	104	400	0.00	

Sample ID: A5 FLOOR @ 1' (H500193-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/21/2015	ND	416	104	400	0.00	

Sample ID: A6 E. WALL @ 1' (H500193-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/21/2015	ND	416	104	400	0.00	

Sample ID: A6 N. WALL @ 1' (H500193-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/21/2015	ND	416	104	400	0.00	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/21/2015	Sampling Date:	01/19/2015
Reported:	01/23/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: A6 FLOOR @ 1' (H500193-13)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2015	ND	1.58	78.8	2.00	14.6	
Toluene*	<0.050	0.050	01/22/2015	ND	1.51	75.7	2.00	15.2	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.44	72.0	2.00	15.8	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.34	72.3	6.00	16.4	
Total BTEX	<0.300	0.300	01/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/21/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2015	ND	192	95.9	200	2.00	
DRO >C10-C28	<10.0	10.0	01/21/2015	ND	191	95.6	200	0.476	
EXT DRO >C28-C35	<10.0	10.0	01/21/2015	ND					

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 117 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



January 28, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU CVX JV RR #010 H

Enclosed are the results of analyses for samples received by the laboratory on 01/26/15 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/26/2015	Sampling Date:	01/23/2015
Reported:	01/28/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: C4 @ 1' (H500243-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/27/2015	ND	432	108	400	3.77	

Sample ID: C5 @ 1' (H500243-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2015	ND	1.71	85.4	2.00	7.10	
Toluene*	<0.050	0.050	01/27/2015	ND	1.66	82.8	2.00	6.42	
Ethylbenzene*	<0.050	0.050	01/27/2015	ND	1.58	78.9	2.00	8.23	
Total Xylenes*	<0.150	0.150	01/27/2015	ND	4.75	79.2	6.00	8.71	
Total BTEX	<0.300	0.300	01/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/27/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2015	ND	192	96.1	200	1.01	
DRO >C10-C28	<10.0	10.0	01/27/2015	ND	192	96.2	200	3.37	
EXT DRO >C28-C35	<10.0	10.0	01/27/2015	ND					

Surrogate: 1-Chlorooctane 104 % 47.2-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/26/2015	Sampling Date:	01/23/2015
Reported:	01/28/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: C5 @ 1' (H500243-02)
TPH 8015M
mg/kg
Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<i>Surrogate: 1-Chlorooctadecane</i>	118 %	52.1-176							

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Joel Lowry		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: Joel Lowry		Company: BOPCO, LP																	
Address: P.O. Box 301		Attn: Tony Savoie																	
City: Lovington		State: NM Zip: 88260																	
Phone #: (575)396-2378		Address:																	
Project #: _____		City:																	
Project Name: PLU CVX JV RR #010H		State: NM Zip:																	
Project Location: Eddy Co., NM		Phone #:																	
Sampler Name: Joel Lowry		Fax #:																	
<small>FOR LAB USE ONLY</small>																			
Lab I.D. HS00243-	Sample I.D. 01	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				DATE	TIME										
										GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	
	C4 @ 1'		1		X			1/23/15	200	X									
	C5 @ 1'		1		X			1/23/15	245	X	X								

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Relinquished By: *Joel Lowry* Date: **1/26/15** Time: **7:15** Received By: *Joel Lowry* Date: **1/26/15** Time: **14:50**

Delivered By: (Circle One) **UPS** - Bus - Other: **1c** Sample Condition: Yes No Intact Cool Yes No

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

REMARKS: Please email results to pm@basinenv.com, TASavoie@BassPet.com, acruth@basspet.com

FORM-006
 Revision 1.0
Joel Lowry 1/26/15 4:50
Al Johnson #54



January 30, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU CVX JV RR #010 H

Enclosed are the results of analyses for samples received by the laboratory on 01/28/15 15:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/28/2015	Sampling Date:	01/27/2015
Reported:	01/30/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: B #3 (H500266-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/29/2015	ND	416	104	400	0.00	

Sample ID: B #5 (H500266-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/29/2015	ND	416	104	400	0.00	

Sample ID: C #6 (H500266-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/29/2015	ND	416	104	400	0.00	

Sample ID: D #4 (H500266-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/28/2015	Sampling Date:	01/27/2015
Reported:	01/30/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: D #6 (H500266-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/29/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Joel Lowry Project Manager: P. O. Box 301 Address: Lovington City: Lovington Phone #: (575)396-2378 Project #: Project Name: PLU CVX JV RR #010 Project Location: Eddy Co., NM Sampler Name: Steve Taylor		P.O. #: Company: BOPCO, LP Attn: Tony Savoie Address: City: State: NM Zip: Phone #: Fax #:		BILL TO		ANALYSIS REQUEST	
FOR LAB USE ONLY Lab I.D.: H500266 Sample I.D.:		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV. SAMPLING		DATE TIME	
B #3 B #5 C #6 D #4 D #6		1 1 1 1 1		X X X X X		1/27/15 1/27/15 1/27/15 1/27/15 1/27/15	
						Chloride TPH (8015M) BTEX (8021B) HOLD FOR TPH	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Joel Lowry*
Date: 1/28/15
Time: 12:45
Received By: *Steve Savoie*
Date: 1/28/15
Time: 1:300
Delivered By: (Circle One) UPS - Bus - Other: *1.60*
Sampler - UPS - Bus - Other: *1.60*
Sample Condition: Cool Intact
Checked By: *Steve Savoie*
Remarks: Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
3:12 # 54
1/28/15

Phone Result: Yes No **Add'l Phone #:**
Fax Result: Yes No **Add'l Fax #:**
REMARKS:
 Please email results to pm@basinenv.com,
 TAsavoie@BassPet.com, acruith@basspet.com



February 05, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU CVX JV RR #010 H

Enclosed are the results of analyses for samples received by the laboratory on 01/29/15 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/29/2015	Sampling Date:	01/28/2015
Reported:	02/05/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: A #2 (H500274-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/02/2015	ND	432	108	400	3.77	

Sample ID: A #4 (H500274-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/02/2015	ND	432	108	400	3.77	

Sample ID: B #2 (H500274-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/02/2015	ND	432	108	400	3.77	

Sample ID: C #2 (H500274-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/02/2015	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/29/2015	Sampling Date:	01/28/2015
Reported:	02/05/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: C #3 (H500274-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/02/2015	ND	432	108	400	3.77	

Sample ID: D #1 (H500274-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/02/2015	ND	432	108	400	3.77	

Sample ID: D #3 (H500274-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	02/02/2015	ND	432	108	400	3.77	

Sample ID: D #5 (H500274-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/02/2015	ND	432	108	400	3.77	

Sample ID: E #6 (H500274-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/02/2015	ND	432	108	400	3.77	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager

February 05, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU CVX JV RR #010 H

Enclosed are the results of analyses for samples received by the laboratory on 01/30/15 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	01/30/2015	Sampling Date:	01/29/2015
Reported:	02/05/2015	Sampling Type:	Soil
Project Name:	PLU CVX JV RR #010 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E #4 @ 1' (H500276-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/02/2015	ND	416	104	400	7.41	

Sample ID: E #5 @ 2' (H500276-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	02/02/2015	ND	416	104	400	7.41	

Sample ID: F #5 @ SURF. (H500276-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	02/02/2015	ND	416	104	400	7.41	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Joel Lowry		P.O. #: BOPCO, LP		ANALYSIS REQUEST	
Project Manager: Joel Lowry		Company: BOPCO, LP			
Address: P.O. Box 301		Attn: Tony Saviole		Chloride	
City: Lovington		Address: 			
State: NM Zip: 88260		City: 		TPH (8015M)	
Phone #: (575)396-2378 Fax #: (575)396-1429		State: NM Zip: 			
Project #: Project Owner: 		Phone #: Fax #: 		BTEX (8021B)	
Project Name: PLU CVX JV RR #010H		Date: Time: 			
Project Location: Eddy Co., NM		DATE		HOLD FOR TPH	
Sampler Name: Joel Lowry		TIME			
FOR LAB USE ONLY		DATE		Chloride	
Lab I.D. H5002716		TIME			
Sample I.D. E#4 @ 1'		DATE		TPH (8015M)	
E#5 @ 2'		TIME			
F#5 @ Surf.		DATE		BTEX (8021B)	
(G)RAB OR (C)OMP.		TIME			
# CONTAINERS		DATE		HOLD FOR TPH	
GROUNDWATER		TIME			
WASTEWATER		DATE		Chloride	
SOIL		TIME			
OIL		DATE		TPH (8015M)	
SLUDGE		TIME			
OTHER :		DATE		BTEX (8021B)	
ACID/BASE:		TIME			
ICE / COOL		DATE		HOLD FOR TPH	
OTHER :		TIME			
PRESERV:		DATE		Chloride	
SAMPLING		TIME			

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Relinquished By: *Joel Lowry* Date: *1/30/15* Time: *8:00*
 Received By: *BT Hubbard* Date: *1/30/15* Time: *10:40*
 Relinquished By: *BT Hubbard* Date: *1/30/15* Time: *10:40*
 Received By: *Yodi Henderson* Date: *1/30/15* Time: *10:40*
 Delivered By: (Circle One) UPS Bus Other: *0.48*
 Sample Condition: Cool Intact Yes No Yes No No
 CHECKED BY: *[Signature]* (Initials)
 Phone Result: Yes No Add'l Phone #: *#54*
 Fax Result: Yes No Add'l Fax #: *#54*
 REMARKS: Please email results to pm@basinenv.com, TASaviole@BassPet.com, acruth@basspet.com

February 11, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU CVX JV RR #010

Enclosed are the results of analyses for samples received by the laboratory on 02/06/15 13:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 02/06/2015
 Reported: 02/11/2015
 Project Name: PLU CVX JV RR #010
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/04/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: D #2 @ 1' (H500364-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/09/2015	ND	416	104	400	0.00	

Sample ID: F #1 @ 1' (H500364-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/09/2015	ND	416	104	400	0.00	

Sample ID: F #2 @ 1' (H500364-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/09/2015	ND	416	104	400	0.00	

Sample ID: F #3 @ 3' (H500364-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/09/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 JOEL LOWRY
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

 Received: 02/06/2015
 Reported: 02/11/2015
 Project Name: PLU CVX JV RR #010
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/04/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: E #1 @ SURFACE (H500364-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/09/2015	ND	416	104	400	0.00	

Sample ID: E #2 @ 1' (H500364-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/09/2015	ND	416	104	400	0.00	

Sample ID: E #3 @ 1' (H500364-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/09/2015	ND	416	104	400	0.00	

Sample ID: E #4 @ 1' (H500364-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/09/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: _____ Project Manager: <u>Joel Lowry</u> Address: <u>P.O. Box 301</u> City: <u>Lovington</u> State: <u>NM</u> Zip: <u>88260</u> Phone #: <u>(575)396-2378</u> Fax #: <u>(575)396-1429</u> Project #: _____ Project Owner: _____ Project Name: <u>PLU CVX JV RR #010</u> Project Location: <u>Eddy Co., NM</u> Sampler Name: <u>Steve Taylor</u>		BILL TO P.O. #: _____ Company: <u>BOPCO, LP</u> Attn: <u>Tony Savoie</u> Address: _____ City: _____ State: <u>NM</u> Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____ H500314		MATRIX <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : _____ PRESERV. <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER : _____	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		ANALYSIS REQUEST Chloride TPH (8015M) BTEX (8021B) HOLD FOR TPH	
Relinquished By: <u>[Signature]</u> Date: <u>2-16-15</u> Time: <u>13:35</u> Received By: <u>[Signature]</u> Date: _____ Time: _____		DATE TIME 2/4/15 1050 X 2/4/15 1055 X 2/4/15 1100 X 2/4/15 1105 X 2/4/15 1110 X 2/4/15 1115 X 2/4/15 1120 X 2/4/15 1125 X	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> No <input type="checkbox"/> No	
CHECKED BY: <u>[Signature]</u> (Initials)		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: _____	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

#54