

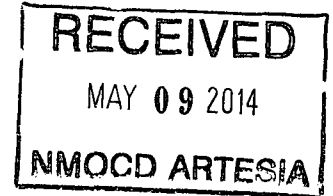
Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
jwlowry@basinenv.com

Office: (575) 396-2378 Fax: (575) 396-1429



REMEDIATION SUMMARY AND SITE CLOSURE REQUEST



**BOPCO, LP
POKER LAKE UNIT #211
Eddy County, New Mexico
Unit Letter "J" (NW/SE), Section 18 Township 24 South, Range 30 East
Latitude 32.215792° North, Longitude 103.918552° West
NMOCD Reference #2RP-1232**

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**

April 2014

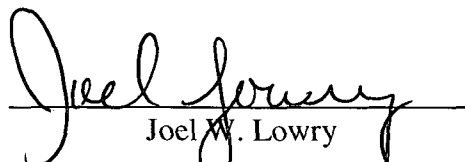

Joel W. Lowry
Project Manager

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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 Poker Lake Unit #211 (PLU #211). The legal description of the release site is Unit Letter "J" (NW/SE), Section 18, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.215792° North latitude and 103.918552° 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 July 15, 2012, BOPCO discovered a release had occurred on the PLU #211 Well Pad. Failure of the stuffing box resulted in the release of approximately ten barrels (10 bbls) of crude oil and fifteen barrels (15 bbls) of produced water. The "Release Notification and Corrective Action" (Form C-141) indicated the release affected approximately 8,925 square feet of caliche well pad and approximately 840 square feet of adjacent pasture land. The New Mexico Oil Conservation Division (NMOCD) was notified immediately upon discovery. During initial response activities, a vacuum truck was used to recover five barrels (5 bbls) of free standing fluid, and heavily saturated soil was scraped up. 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 18, Township 24 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and seventy-five feet (175') 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 1,000 feet 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 1,000 feet 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 PLU#211 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)
- BTEX – 50 mg/Kg (ppm)
- 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 March 25, 2014, 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 Standards. Excavated soil was stockpiled on-site, pending final disposition. The release site was divided into fifty foot (50') sections to facilitate remediation activities.

On March 26, 2014, nine (9) soil samples (NSW #1, NSW #2, ESW #1, SSW #1, SSW #2, Floor #1, Floor #2, Floor #3 and Floor #4) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 144 ppm for soil sample NSW #1 to 1,250 ppm for soil sample SSW #2. Soil samples Floor #2 and Floor #4 were also analyzed for concentrations TPH, which were determined to be 20.7 ppm and less than the appropriate laboratory method detection limit (MDL), respectively. Soil sample Floor #4 was also analyzed for concentrations of BTEX which were determined to be less than the appropriate laboratory MDL. A summary of "Concentrations of Benzene, BTEX, TPH and Chloride in Soil" is provided in Table 1. A "Site and Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

On March 27, 2014, nine (9) soil samples (North Well South SSW, South Well NSW (In-Situ), ESW #2, NSW #4, TT-6 NSW, TT-6 Floor, TT-6 SSW, TT-7 Floor and Flow Path SSW) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 32.0 ppm for soil sample TT-6 Floor to 928 ppm for soil sample South Well NSW (In-Situ). Soil sample TT-6 Floor was also analyzed for concentrations of TPH, which was determined to be less than the appropriate laboratory MDL.

On March 28, 2014, three (3) soil samples (WSW #4, NSW #6 and Floor #9) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 272 ppm for soil sample WSW #4 to 688 ppm for soil sample Floor #9. Soil sample Floor #9 was also analyzed for concentrations of BTEX and TPH, which was determined to be less than the appropriate laboratory MDL.

Between March 27, and April 5, 2014, approximately one thousand, one hundred and twenty cubic yards (1,120 yd³) of impacted material was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035) for disposal. The final dimensions of the primary excavation were approximately ten (10) to forty-five (45') in width, two hundred and twenty feet (220') in length and one (1) to two feet (2') in depth. An area measuring approximately thirty (30') in width and sixty feet (60') in length north of the pumping well was excavated to approximately two feet (2') bgs. 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.

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

Soil samples collected from the floor and sidewalls of the PLU #211 excavation 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 with the exception of soil sample SSW #2, which exhibited a chloride concentration of 1,250 ppm. 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 PLU #211 release site.

6.0 LIMITATIONS

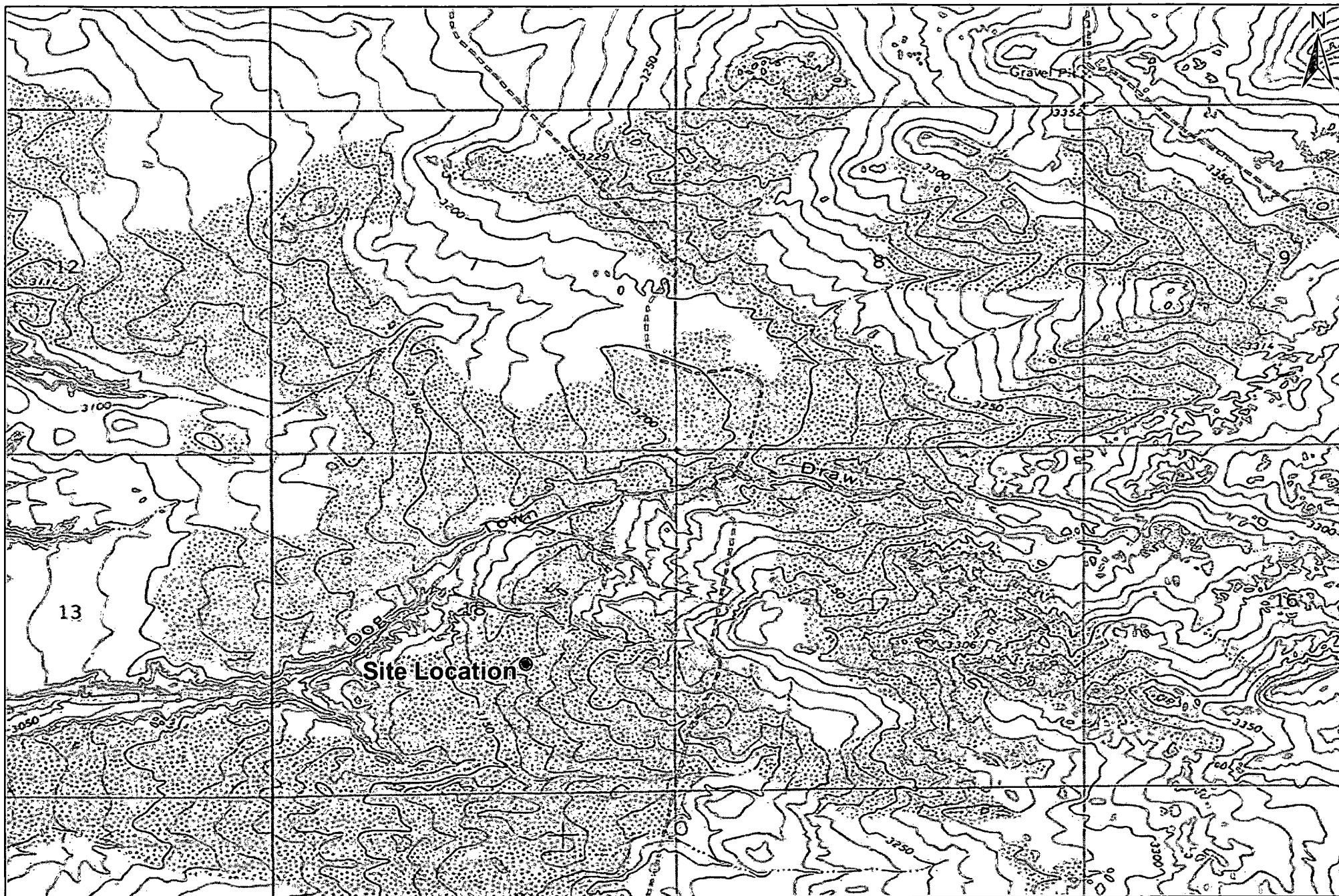
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by 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




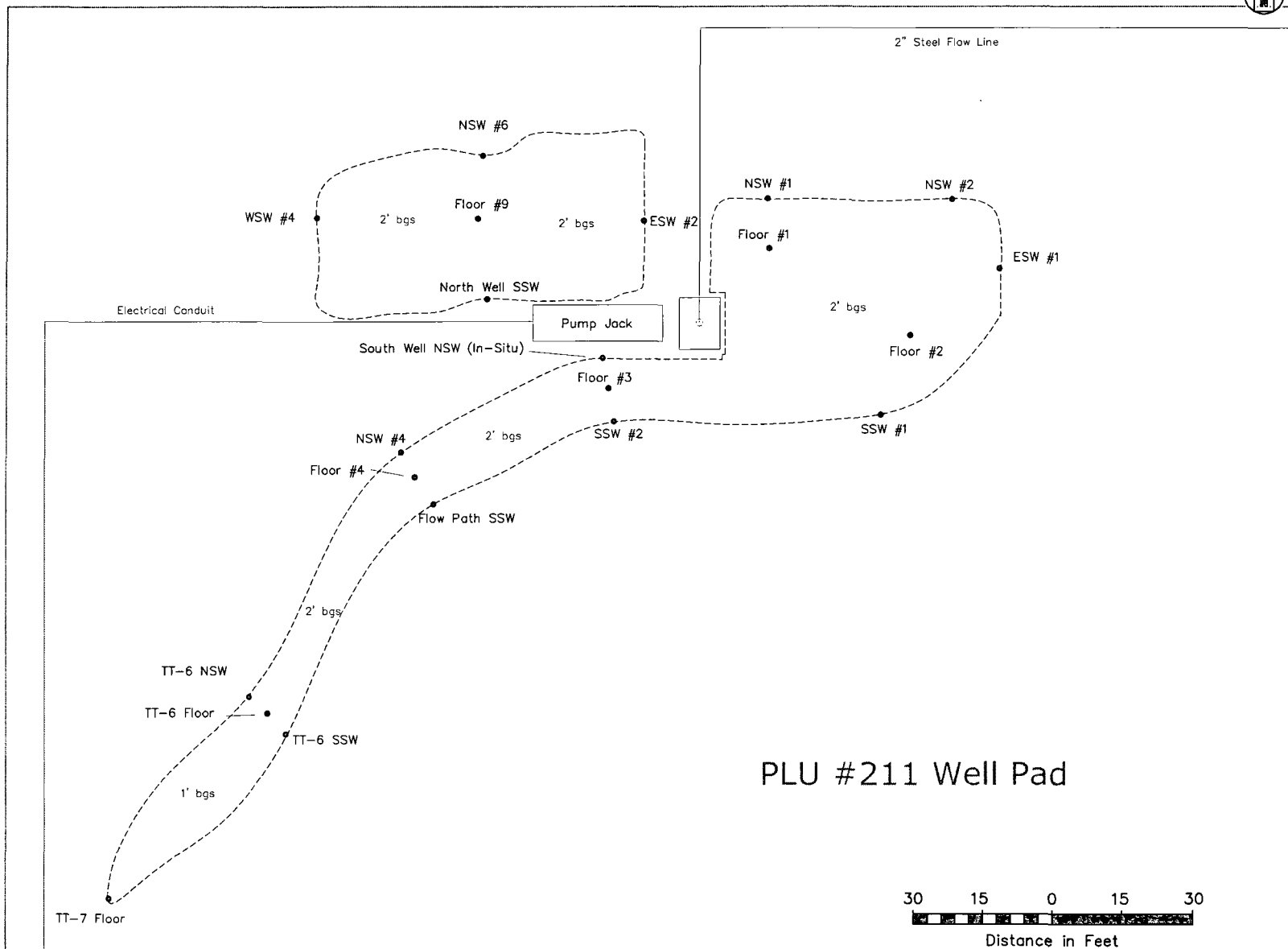
1,000 500 0 1,000 2,000

 Distance in Feet

Figure 1
Site Location Map
BOPCO, LP
Poker Lake Unit #211
Eddy County, New Mexico
NMOCD Reference #: 2RP-1232



Basin Environmental Service Technologies, LLC
 3100 Plains Hwy.
 Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
April 16, 2014	Scale: 1" = 2000'



Legend:

- Excavation Extent
- Caliche Well Pad
- Pipeline
- Sample Location

Figure 2
Site & Sample Location Map
BOPCO, L.P.
Poker Lake Unit #211
Eddy County, New Mexico

Basin Environmental Services

Prep By: JWL	Checked By: BJA
April 17, 2014	Scale 1"=30'

TABLES

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP
POKER LAKE UNIT #211
EDDY COUNTY, NEW MEXICO

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
				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)		CHLORIDE (mg/Kg)
NSW #1	1'	3/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	144
NSW #2	1'	3/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	480
ESW #1	1'	3/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	384
SSW #1	1'	3/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	448
SSW #2	1'	3/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,250
Floor #1	2'	3/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	176
Floor #2	2'	3/26/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	20.7	20.7	400
Floor #3	2'	3/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	800
Floor #4	2'	3/26/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
North Well South SSW	1'	3/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	144
South Well NSW (In-Situ)	1'	3/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	928
ESW #2	1'	3/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	176
NSW #4	1'	3/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	240
TT-6 NSW	1'	3/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	96.0
TT-6 Floor	2'	3/27/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	32.0
TT-6 SSW	1'	3/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	560
TT-7 Floor	Surface	3/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	176
Flow Path SSW	1'	3/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	384
WSW #4	1'	3/28/2012	In-Situ	-	-	-	-	-	-	-	-	-	272
NSW #6	1'	3/28/2012	In-Situ	-	-	-	-	-	-	-	-	-	640
Floor #9	2'	3/28/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

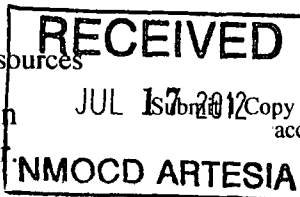
APPENDICES

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

Release Notification and Corrective Action

NAME NJMW 122-1254150 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. <u>260737</u>	Contact: Tony Savoie	
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 432-556-8730	
Facility Name: Poker Lake Unit #211	Facility Type: Pumping well	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-33858

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	24S	30E	1980	South	1980	East	Eddy

Latitude: N 32.215792 Longitude: W 103.918552

NATURE OF RELEASE

Type of Release: Produced Water and crude oil	Volume of Release 10 bbls crude oil and 15 bbls produced water	Volume Recovered: 5 bbls total fluid
Source of Release: Pumping well stuffing box packing	Date and Hour of Occurrence: 7/15/12 Time unknown	Date and Hour of Discovery: 7/15/12 Approximately 12:45 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD Emergency #104 and Jim Amos "BLM"	
By Whom? Tony Savoie	Date and Hour : 7/16/12 at 9:05 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The well was shut in and the stuffing box packing was replaced.

Describe Area Affected and Cleanup Action Taken.*
Approximately 8925 sq.ft. of caliche well pad and approximately 840 sq.ft. of pasture was affected by the release, a vacuum truck was used to pick up the free standing fluid and a backhoe was used to scrape up the heavily saturated soil on the well pad, that material was stockpiled on-site. The remediation will follow the NMOCD and BLM spill 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: <u>Tony Savoie</u>	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Signed By <u>Mike Brannan</u>	
Title: Waste Mgmt. and Remediation Specialist	Approved by Environmental Specialist:	
E-mail Address: <u>tasavoie@basspet.com</u>	Approval Date: <u>JUL 30 2012</u>	Expiration Date:
Date: 7/16/12 Phone: 432-556-8730	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

Remediation per OCD Rules &
Guidelines. SUBMIT REMEDIATION
PROPOSAL NOT LATER THAN:

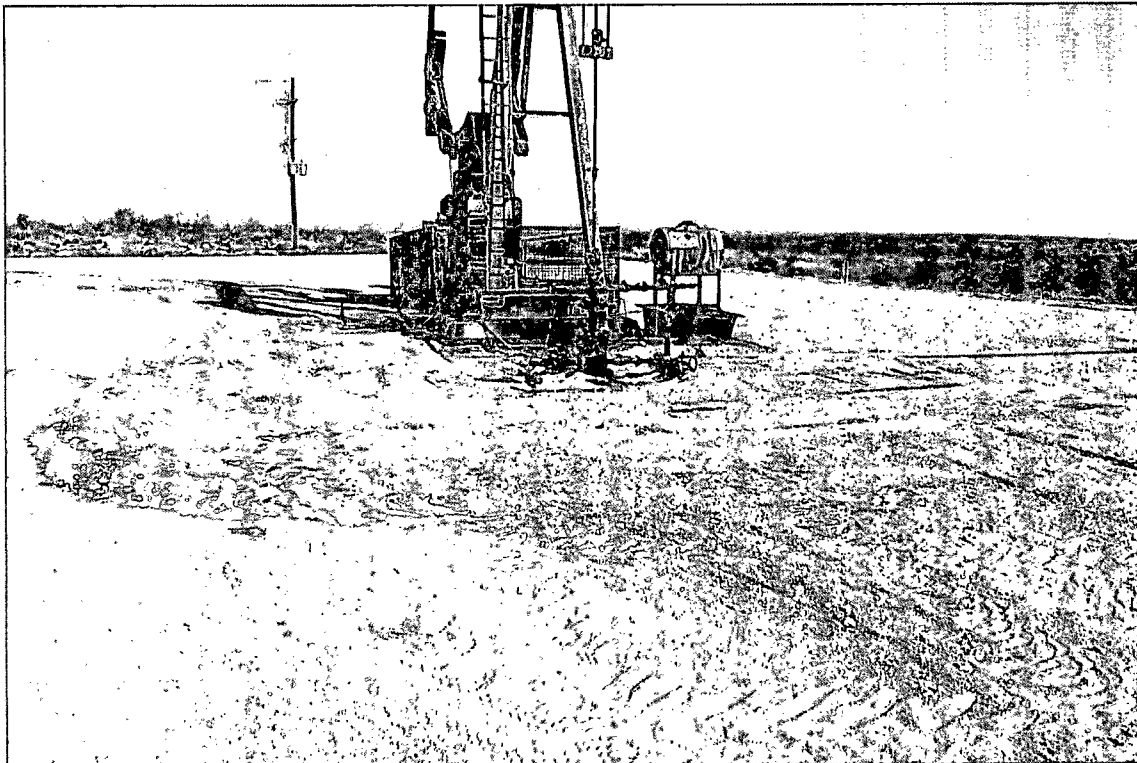
8/30/12

2RP-1232

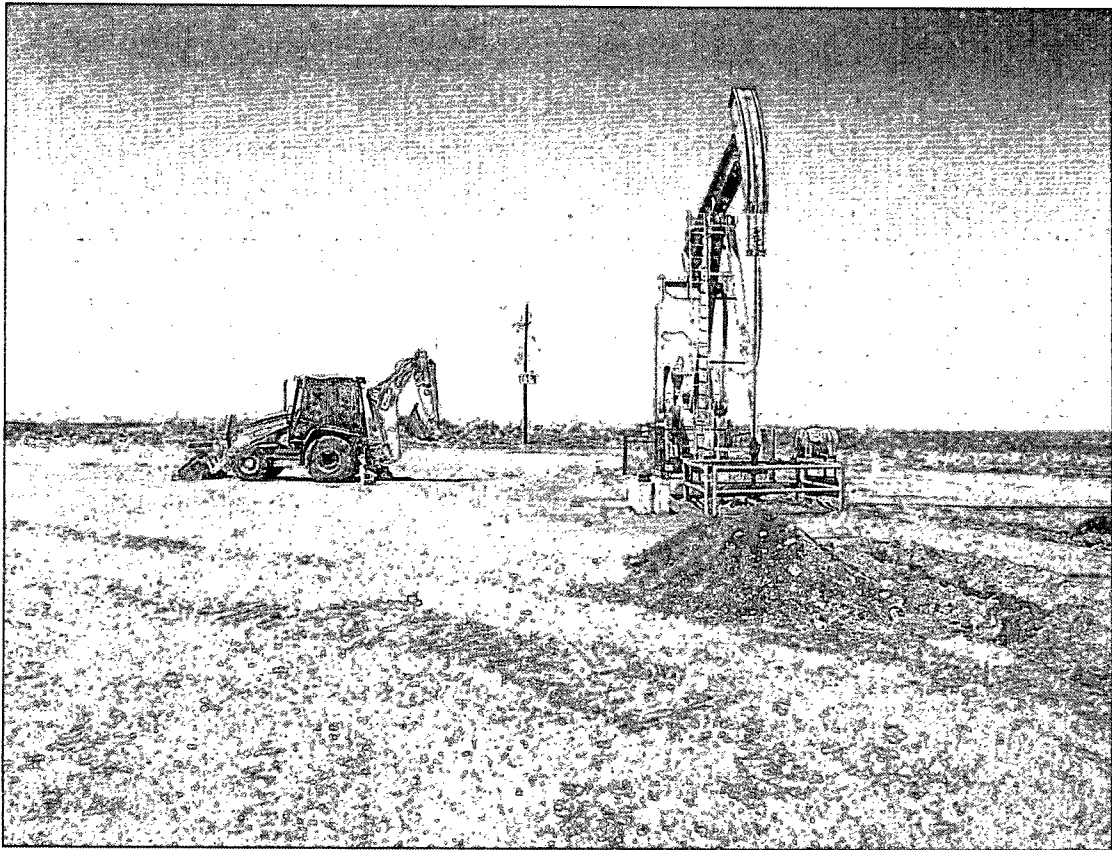
Appendix B
Photographs



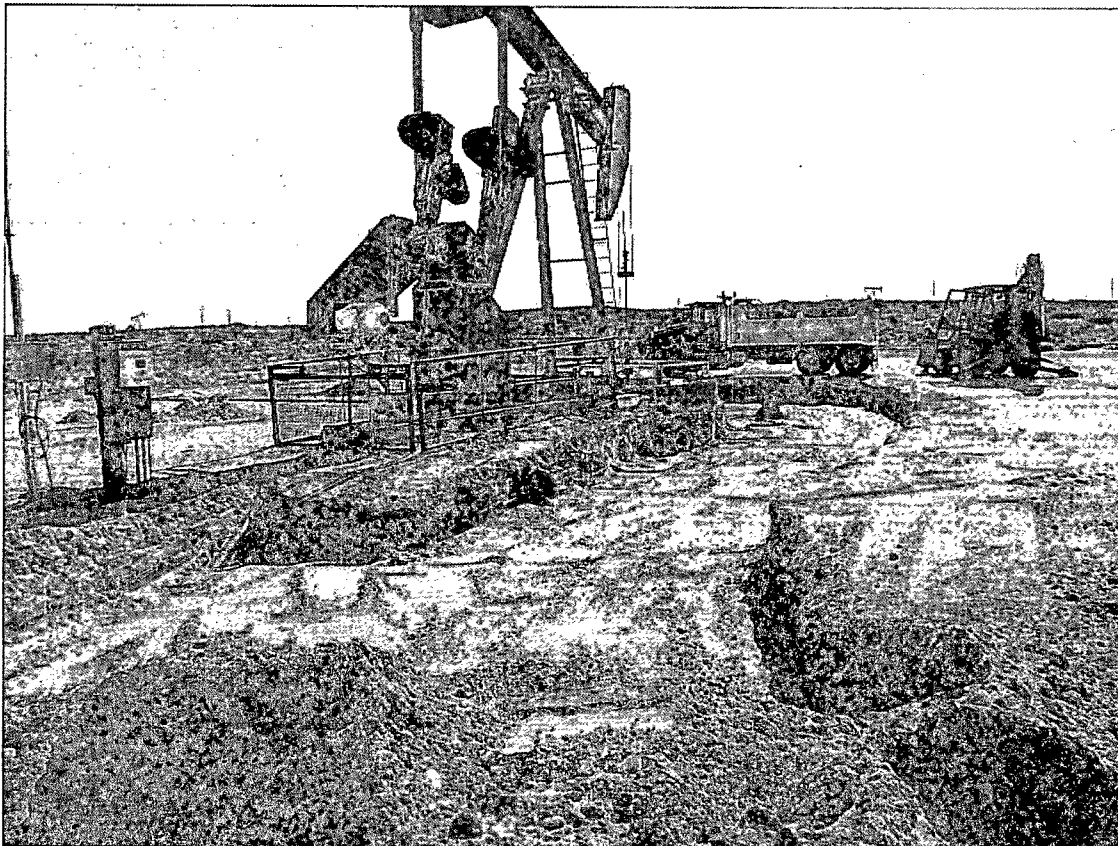
Photograph of surface staining after the release at the PLU #211 Release Site. (Looking Southwest)



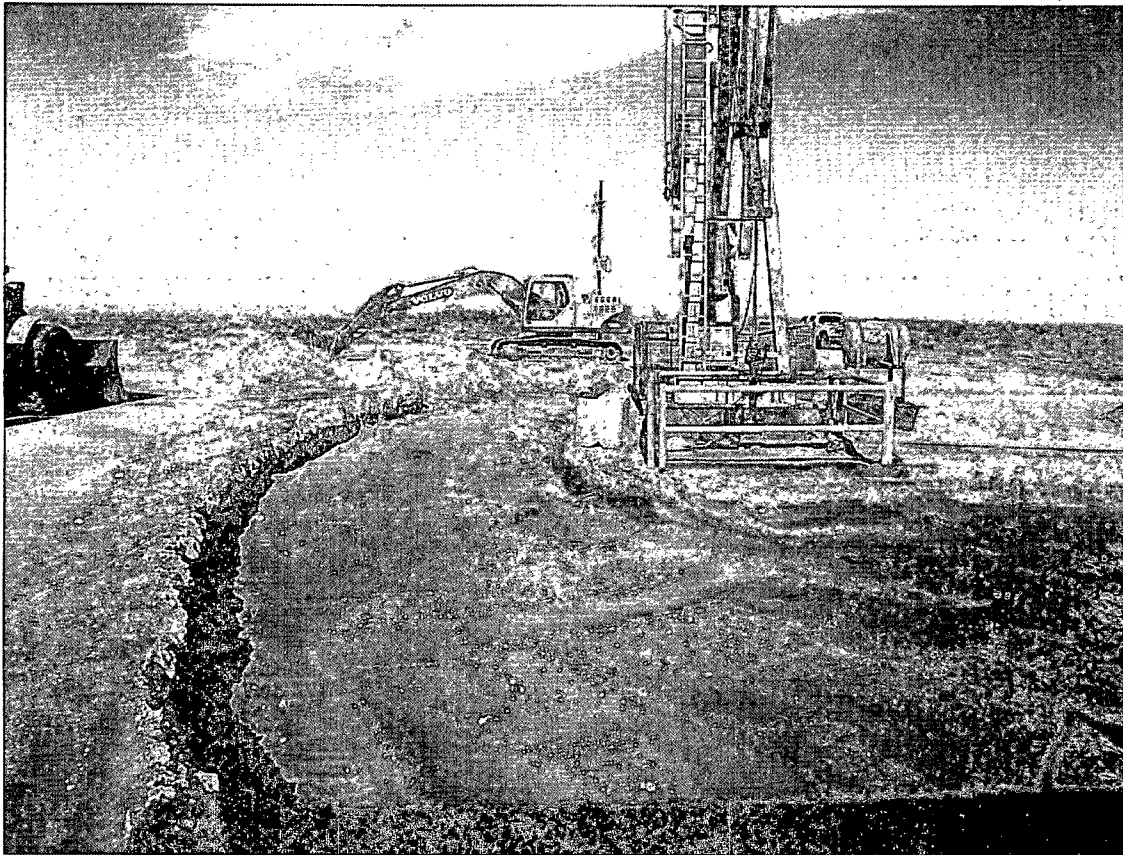
Photograph of surface staining from the release at the PLU #211 Release Site. (Looking West)



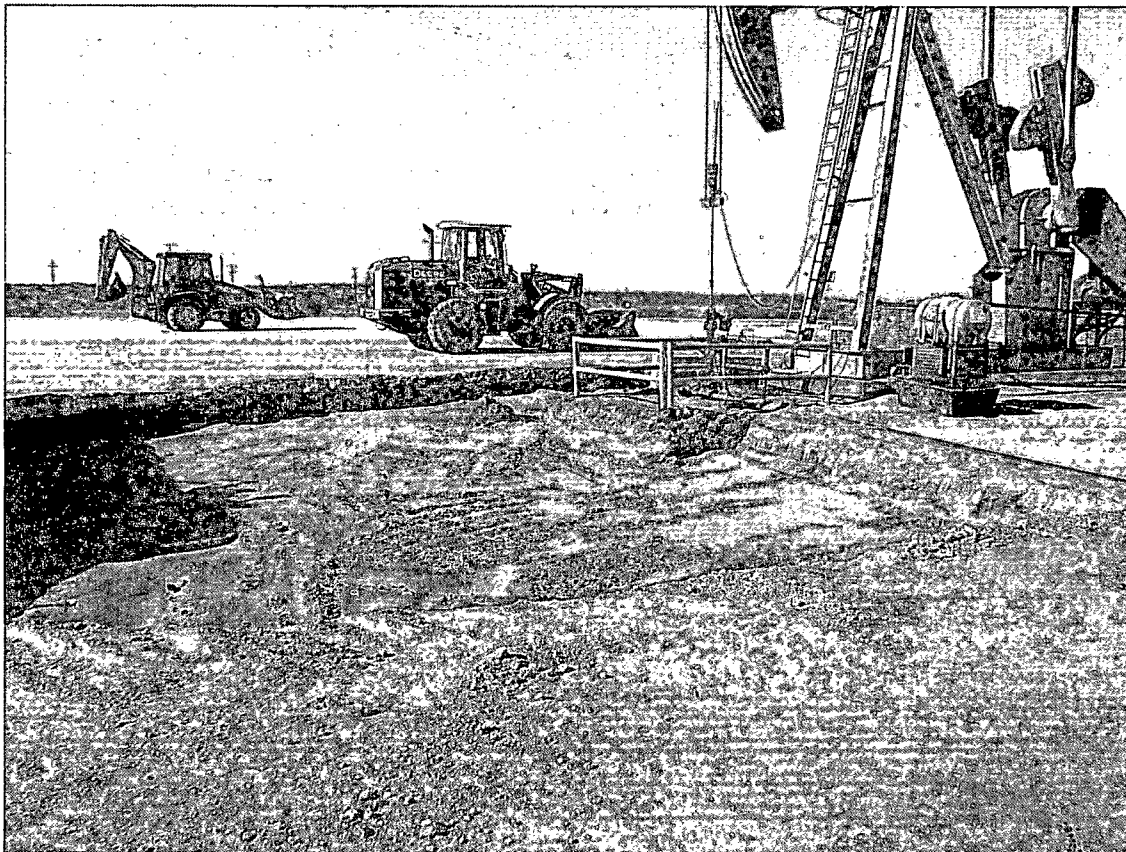
Photograph of excavation activities at the PLU #211 Release Site. (Looking West)



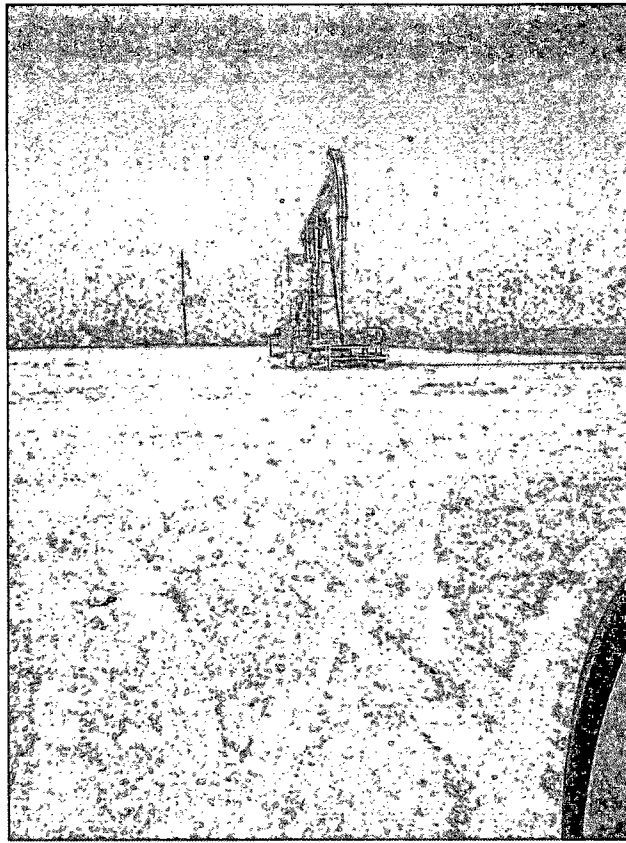
Photograph of excavation activities at the PLU #211 Release Site. (Looking East)



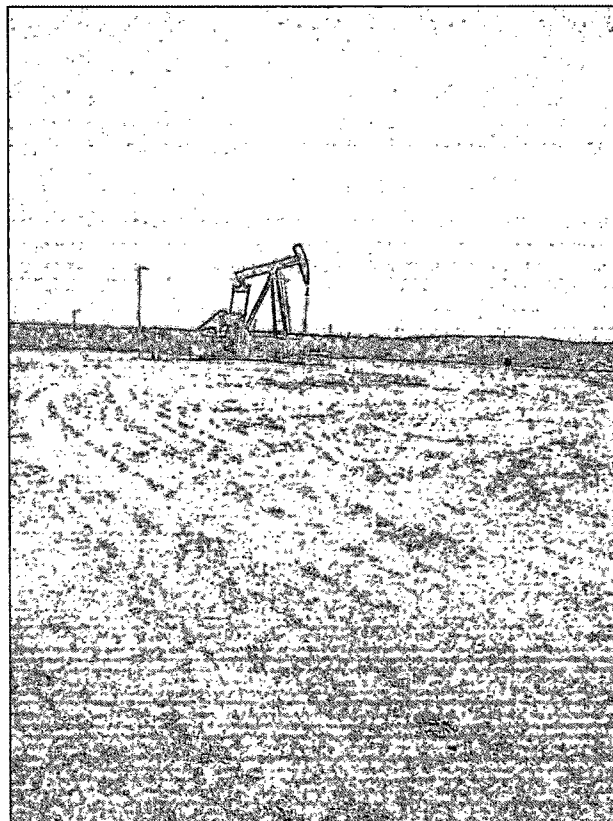
Photograph of excavation activities at the PLU #211 Release Site. (Looking West)



Photograph of excavation activities at the PLU #211 Release Site. (Looking South)



Photograph of the PLU #211 Release Site after remediation activities. (Looking West)



Photograph of the PLU #211 Release Site after remediation activities. (Looking North)

Appendix C

Laboratory Analytical Reports

April 02, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #211

Enclosed are the results of analyses for samples received by the laboratory on 03/27/14 8:15.

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.

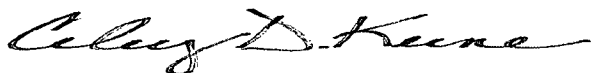
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 03/27/2014
 Reported: 04/02/2014
 Project Name: PLU #211
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 03/26/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NSW #1 (H400912-01)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/02/2014	ND	416	104	400	3.77	

Sample ID: NSW #2 (H400912-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/02/2014	ND	416	104	400	3.77	

Sample ID: ESW #1 (H400912-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/02/2014	ND	416	104	400	3.77	

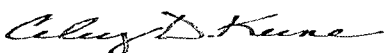
Sample ID: SSW #1 (H400912-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/02/2014	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 03/27/2014
Reported: 04/02/2014
Project Name: PLU #211
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/26/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SSW #2 (H400912-05)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	04/02/2014	ND	416	104	400	3.77	

Sample ID: FLOOR #1 (H400912-06)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/02/2014	ND	416	104	400	3.77	

Sample ID: FLOOR #2 (H400912-07)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/02/2014	ND	416	104	400	3.77	

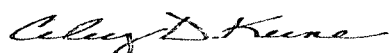
TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	<10.0	10.0	03/31/2014	ND	198	99.0	200	1.31	
EXT DRO >C28-C35	20.7	10.0	03/31/2014	ND					

Surrogate: 1-Chlorooctane 89.3 % 65.2-140
Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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: 03/27/2014
Reported: 04/02/2014
Project Name: PLU #211
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/26/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

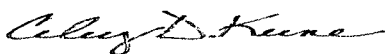
Sample ID: FLOOR #3 (H400912-08)**Chloride, SM4500CI-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	04/02/2014	ND	416	104	400	3.77	

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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: 03/27/2014
Reported: 04/02/2014
Project Name: PLU #211
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/26/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: FLOOR #4 (H400912-09)

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	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	<0.050	0.050	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	<0.300	0.300	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/02/2014	ND	416	104	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	03/31/2014	ND	222	111	200	9.86	
DRO >C10-C28	<10.0	10.0	03/31/2014	ND	198	99.0	200	1.31	
EXT DRO >C28-C35	<10.0	10.0	03/31/2014	ND					

Surrogate: 1-Chlorooctane 88.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

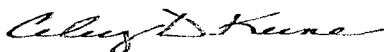
Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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

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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

Page 7 of 7

Company Name: Basin Environmental Service Technologies, LLC		BILL TO		ANALYSIS REQUEST																													
Project Manager: Joel Lowry		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																													
Address: P.O. Box 301		Company: BOPCO, LP																															
City: Lovington State: NM Zip: 88260		Attn: Tony Savoie																															
Phone #: (575)396-2378 Fax #: (575)396-1429		Address: 522 W. Marland																															
Project #: Project Owner:		City: Carlsbad																															
Project Name: PLU #211		State: NM Zip: 88220																															
Project Location: Eddy Co., NM		Phone #: (432)556-8730																															
Sampler Name: PLU Pierce Canyon 17-24-30		Fax #:																															
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																									
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																			
H400912																																	
1	NSW #1	g	1			x				x			3/26/14	910	x																		
2	NSW #2	g	1			x				x			3/26/14	920	x																		
3	ESW #1	g	1			x				x			3/26/14	930	x																		
4	SSW #1	g	1			x				x			3/26/14	940	x																		
5	SSW #2	g	1			x				x			3/26/14	950	x																		
6	Floor #1	g	1			x				x			3/26/14	1000	x																		
7	Floor #2	g	1			x				x			3/26/14	1010	x	x																	
8	Floor #3	g	1			x				x			3/26/14	1020	x																		
9	Floor #4	g	1			x				x			3/26/14	1030	x	x	x																

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Relinquished By:	Date: 3/27/14	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Joel Lowry</i>	Time: 7:15	<i>Michael P...</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 3/27/14	Received By:	REMARKS:	
<i>Michael P...</i>	Time: 8:15	<i>Jodi Henson</i>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com	
Sampler UPS Bus - Other:	Cool Intact	(Initials)		
Revision 1.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>4.20</i>		
	<input type="checkbox"/> No <input type="checkbox"/> No			

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

April 02, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #211

Enclosed are the results of analyses for samples received by the laboratory on 03/28/14 10:10.

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/ga/lab_accred_certif.html.

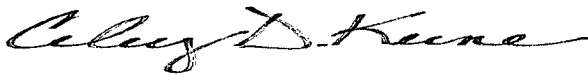
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 03/28/2014
Reported: 04/02/2014
Project Name: PLU #211
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NORTH WELL SOUTH SSW (H400925-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/01/2014	ND	400	100	400	0.00		

Sample ID: SOUTH WELL NSW (IN-SITU) (H400925-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	04/01/2014	ND	400	100	400	0.00	

Sample ID: ESW #2 (H400925-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/01/2014	ND	400	100	400	0.00	

Sample ID: NSW #4 (H400925-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/01/2014	ND	400	100	400	0.00	

Cardinal Laboratories

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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: 03/28/2014
Reported: 04/02/2014
Project Name: PLU #211
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-6 NSW (H400925-05)

Chloride, SM4500Cl-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	04/01/2014	ND	400	100	400	0.00	

Sample ID: TT-6 FLOOR (H400925-06)

Chloride, SM4500Cl-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	04/01/2014	ND	400	100	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	04/02/2014	ND	183	91.5	200	12.1	
DRO >C10-C28	<10.0	10.0	04/02/2014	ND	190	95.0	200	11.1	
EXT DRO >C28-C35	<10.0	10.0	04/02/2014	ND					

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

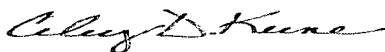
Sample ID: TT-6 SSW (H400925-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/01/2014	ND	400	100	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: 03/28/2014
Reported: 04/02/2014
Project Name: PLU #211
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-7 FLOOR (H400925-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/01/2014	ND	400	100	400	0.00		

Sample ID: FLOW PATH SSW (H400925-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/01/2014	ND	400	100	400	0.00	

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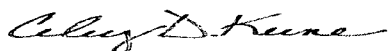
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Celey D. Keene, Lab Director/Quality Manager

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



Caley D. Keene, Lab Director/Quality Manager



Page 6 of 6

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#54

April 04, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #211

Enclosed are the results of analyses for samples received by the laboratory on 03/31/14 15:55.

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.

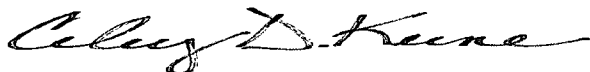
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 03/31/2014
Reported: 04/04/2014
Project Name: PLU #211
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WSW #4 (H400957-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/03/2014	ND	400	100	400	0.00	

Sample ID: NSW #6 (H400957-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/03/2014	ND	400	100	400	0.00	

Sample ID: FLOOR #9 (H400957-03)

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	04/02/2014	ND	2.64	132	2.00	4.76	
Toluene*	<0.050	0.050	04/02/2014	ND	2.55	128	2.00	5.08	
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.51	126	2.00	4.96	
Total Xylenes*	<0.150	0.150	04/02/2014	ND	7.31	122	6.00	5.65	
Total BTEX	<0.300	0.300	04/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

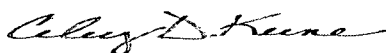
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/03/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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: 03/31/2014
Reported: 04/04/2014
Project Name: PLU #211
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

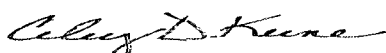
Sample ID: FLOOR #9 (H400957-03)

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	04/02/2014	ND	187	93.4	200	1.94	
DRO >C10-C28	<10.0	10.0	04/02/2014	ND	216	108	200	2.56	
EXT DRO >C28-C35	<10.0	10.0	04/02/2014	ND					
<hr/>									
Surrogate: 1-Chlorooctane	121 %	65.2-140							
Surrogate: 1-Chlorooctadecane	120 %	63.6-154							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

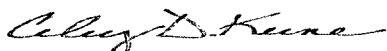
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Company Name: Basin Environmental Service Technologies, LLC		BILL TO		ANALYSIS REQUEST																					
Project Manager: Joel Lowry		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: P.O. Box 301		Company: BOPCO, LP																							
City: Lovington State: NM Zip: 88260		Attn: Tony Savoie																							
Phone #: (575)396-2378 Fax #: (575)396-1429		Address: 522 W. Marland																							
Project #:		City: Carlsbad																							
Project Name: PLU #211		State: NM Zip: 88220																							
Project Location: Eddy Co., NM		Phone #: (432)556-8730																							
Sampler Name:		Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D. #400957 H400958		Sample I.D.		GRAB OR (C)OMP. # CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE		TIME													
1		WSW #4		G 1		x		x		3/28/14		1210		x											
2		NSW #6		G 1		x		x		3/28/14		1220		x											
3		Floor #9		G 1		x		x		3/28/14		1230		x x x											

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Relinquished By: <i>Joel Lowry</i>		Date: 3/31/14		Received By: <i>DR Blakum</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By: <i>DR Blakum</i>		Date: 3/31/14		Received By: <i>Jodi Henson</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Time: 6:10		Time: 3:55		REMARKS:			
Sampler - UPS - Bus - Other:		Sample Condition		CHECKED BY: (Initials)		Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com			
FORM-006		Cool Intact		<i>[Signature]</i>					
Revision 1.0		-6.40		Yes <input type="checkbox"/> No <input type="checkbox"/>					

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

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