

Basin Environmental Service Technologies, LLC

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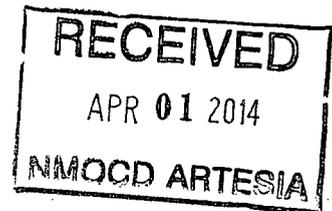


REMEDIATION SUMMARY AND SITE CLOSURE REQUEST

**BOPCO, LP
POKER LAKE UNIT #154 FLOW LINE
Eddy County, New Mexico
Unit Letter "J" (NW/SE), Section 6, Township 24 South, Range 30 East
Latitude 32.244462° North, Longitude 103.920312° West
NMOCD Reference #2RP-1175**

Prepared For:

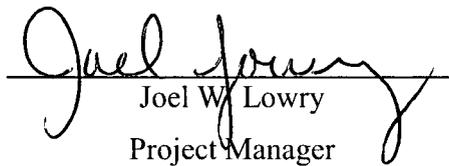
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, New Mexico 88220



Prepared By:

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

March 2014


Joel W. Lowry
Project Manager

NMOCD

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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 & Site Closure Proposal* for the release site known as Poker Lake Unit #154 Flow Line. The legal description of the release site is Unit Letter "J" (NW/SE), Section 6, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.244462° North latitude and 103.92032° 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 May 21, 2012, BOPCO discovered a release had occurred on the Poker Lake Unit #154 flow line. Failure of a section of two and seven-eighths-inch (2 7/8") flow line resulted in a release of produced water and crude oil. The "Release Notification and Corrective Action" (Form C-141) indicated approximately ten barrels (10 bbls) of produced water and five barrels (5 bbls) of crude oil were released, affecting approximately seven hundred and twenty square feet (720 ft²) of caliche road and six hundred square feet (600 ft²) of pasture land. During initial response activities, a repair clamp was placed on the affected area of the pipe to mitigate the release. The failure was attributed to external corrosion. 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 6, 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 #154 Flow Line 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 December 3, 2013, Basin conducted an initial investigation at the release site. A series of hand-augered soil bores were advanced at the release site in an effort to determine the vertical and horizontal extent of soil impact. During the initial investigation, eight (8) soil samples (SP #1 @ 1', SP #1 @ 3', SP #2 @ 1', SP #2 @ 3', SP #3 @ 1', SP #3 @ 3', SP #4 @ 1' and SP #4 @ 3') were collected and submitted to Cardinal Laboratories, of Hobbs, New Mexico, for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 3,960 ppm for soil sample SP #1 @ 2' to 48.0 ppm for soil sample SP #4 @ 1'. Soil samples SP #1 @ 1', SP #1 @ 3', SP #2 @ 3', SP #3 @ 3' and SP #4 @ 3' were also analyzed for concentrations of total petroleum hydrocarbon (TPH). Laboratory analytical results indicated TPH concentrations were less than the laboratory method detection limit (MDL) in each of the submitted soil samples with the exception of soil sample SP #1 @ 3', which exhibited a TPH concentration of 11.2 ppm. Soil sample SP #1 @ 3' was also analyzed for concentrations of benzene, ethylbenzene, toluene, and xylene (BTEX), which were determined to be less than the appropriate laboratory MDL. Laboratory analytical results indicated chloride, TPH and BTEX concentrations were below NMOCD Regulatory Standards in each of the submitted soil samples with the exception of soil samples SP #1 @ 3' and SP #2 @ 1'. 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 February 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. Eleven (11) soil samples (NSW #1, ESW #1, WSW #1, SSW #1, SSWb, NW Floor @ 6", SW Floor @ 6", East Floor @ 7', West Floor @ 18", NSWb and ESWb) 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 720 ppm for soil sample NSWb to 240 ppm for soil sample ESWb. Soil samples SW Floor @ 6", East Floor @ 7' and West Floor @ 18" were also analyzed for concentrations of TPH. Laboratory analytical results indicated TPH concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples with the exception of soil sample SW Floor @ 6", which exhibited a TPH concentration of 171.9 ppm. Soil sample East Floor @ 7' was also analyzed for concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL.

On February 27, 2014, approximately one hundred and twenty cubic yards (120 yd³) of impacted material was transported to Lea Land, LLC (NMOCD Permit #WM-01-035) for disposal. The final dimensions of the excavation were approximately eighteen feet (18') in width, thirty-five feet (35') in length and eighteen inches (18") to seven feet (7') in depth. Upon receiving laboratory analytical data from confirmation soil samples, the excavated area was backfilled with locally purchased, non-impacted material. Following backfilling, areas affected by the remediation activities were compacted and contoured to match the existing caliche road.

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 #154 Flow Line 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. 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 #154 Flow Line 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

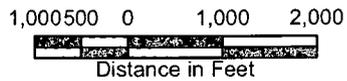
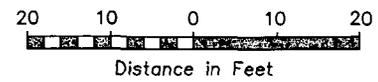
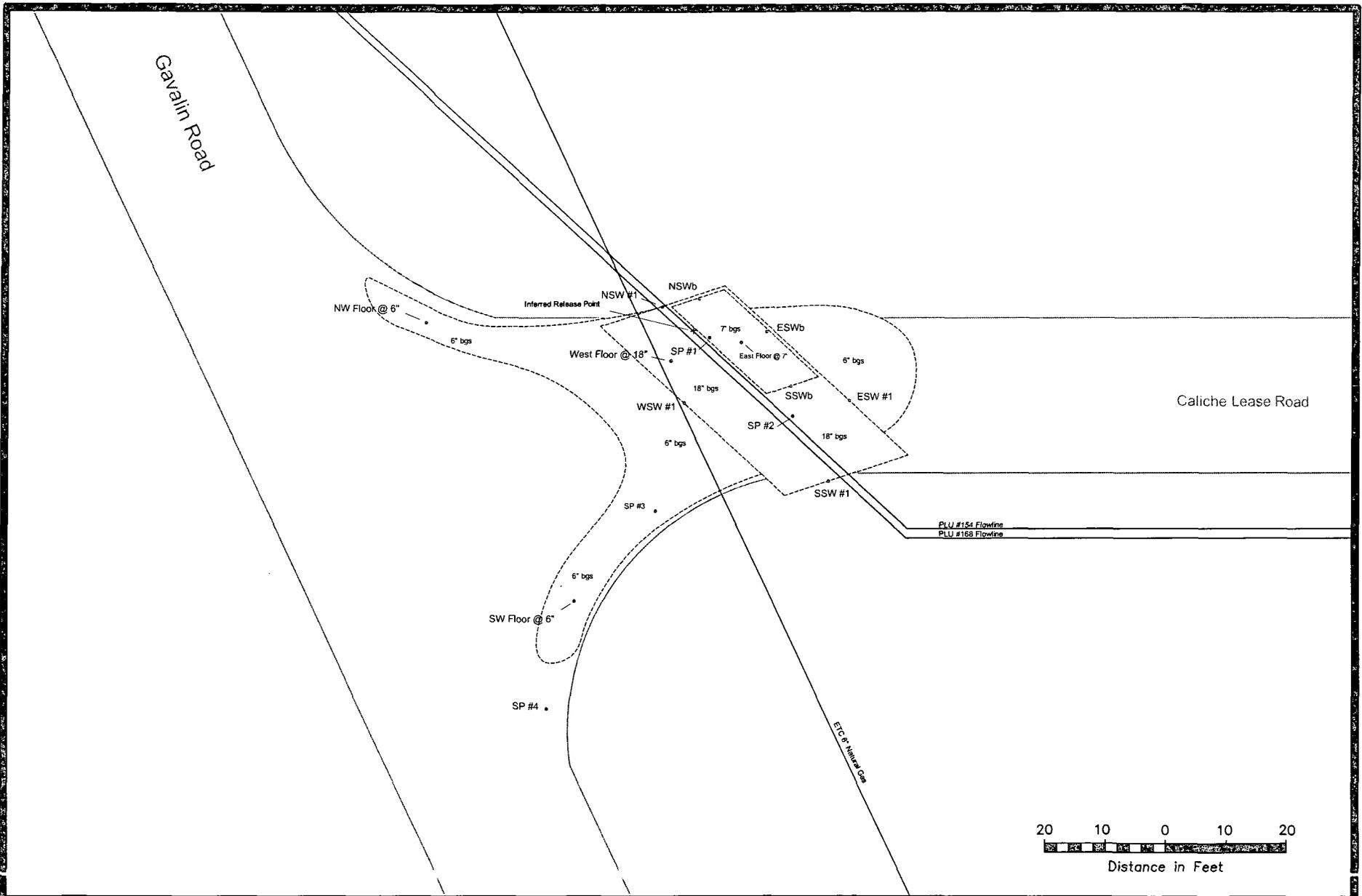


Figure 2
Site Location Map
BOPCO, LP
Poker Lake Unit #154 Flow Line
Eddy County, New Mexico



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

Drawn By: BJA	Checked By: JWJL
March 14, 2014	Scale: 1" = 2,000'



Legend:

●	Sample Location	—	Caliche Road
---	Excavation Extent	—	Pipeline

Figure 2
 Site and Sample Location Map
 BOPCO, LP
 Poker Lake Unit #154 Flow Line
 Eddy County, New Mexico

Basin Environmental Services

Prep By: JWL	Checked By: BJA
March 5, 2014	Scale 1" = 20'

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP
POKER LAKE UNIT #154
EDDY COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL	4500 CI-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)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
SP #1 @ 1'	1'	12/3/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	192
SP #1 @ 3'	3'	12/3/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	<10.0	11.2	3,960
SP #2 @ 1'	1'	12/3/2013	In-Situ	-	-	-	-	-	-	-	-	-	1,310
SP #2 @ 3'	3'	12/3/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	624
SP #3 @ 1'	1'	12/3/2013	In-Situ	-	-	-	-	-	-	-	-	-	112
SP #3 @ 3'	3'	12/3/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	832
SP #4 @ 1'	1'	12/3/2013	In-Situ	-	-	-	-	-	-	-	-	-	48.0
SP #4 @ 3'	3'	12/3/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	144
NSW #1	3'	2/25/2014	In-Situ	-	-	-	-	-	-	-	-	-	640
ESW #1	3'	2/25/2014	In-Situ	-	-	-	-	-	-	-	-	-	496
WSW #1	1'	2/25/2014	In-Situ	-	-	-	-	-	-	-	-	-	336
SSW #1	1'	2/25/2014	In-Situ	-	-	-	-	-	-	-	-	-	720
SSWb	5'	2/25/2014	In-Situ	-	-	-	-	-	-	-	-	-	593
NW Floor @ 6"	6"	2/25/2014	In-Situ	-	-	-	-	-	-	-	-	-	224
SW Floor @ 6"	6"	2/25/2014	In-Situ	-	-	-	-	-	<10.0	127	44.9	171.9	368
East Floor @ 7'	7'	2/25/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
West Floor @ 18"	18"	2/25/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	416
NSWb	5'	2/25/2014	In-Situ	-	-	-	-	-	-	-	-	-	720
ESWb	5'	2/25/2014	In-Situ	-	-	-	-	-	-	-	-	-	240
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Form C-141
Revised October 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

AMLP 1217278658 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 Well #154		Facility Type E&P

Surface Owner Federal Mineral Owner Federal Lease No. APJ#

LOCATION OF RELEASE

30-015-31686

Unit Letter J	Section 6	Township <u>23S</u> <u>24S</u>	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude N 32.244462 Longitude W 103.920312

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 10 Bbls of Produced water and 5 Bbls crude oil	Volume Recovered: None
Source of Release: 2 7/8" flow line	Date and Hour of Occurrence 5/21/12 Time unknown	Date and Hour of Discovery 5/21/12 8:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" 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 flow line developed a leak due to external corrosion. A temporary repair clamp was placed on the pipe.		
Describe Area Affected and Cleanup Action Taken.* Approximately 720 sq. ft. of caliche road and approximately 600 sq. ft. of pasture land. All of the released fluid soaked into the ground. The remediation will comply with the NMOCD and BLM requirements for spills.		
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	Approved by District Supervisor: Signed By <u>[Signature]</u>	
Title: Waste Mgmt. & Remediation Specialist	Approval Date: JUN 20 2012	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/3/12	Phone: 432-556-8730	

* Attach Additional Sheets If Necessary

RECEIVED
JUN 12 2012
NMOCD ARTESIA

↓ 2RP-1175
Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:**
7/20/2012

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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: BOPCO, L.P.	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Poker Lake Unit Well #154 (2RP-1175)	Facility Type: Exploration and Production

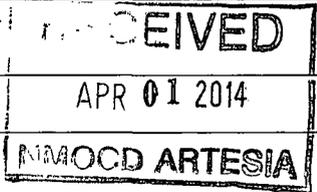
Surface Owner: USA	Mineral Owner: USA	API No. 30-015-31686
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	6	24S	30E					Eddy

Latitude N 32.24462 Longitude W 103.920312

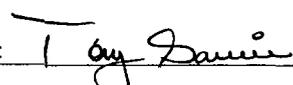
NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 10 bbls of produced water and 5 bbls crude oil	Volume Recovered: None
Source of Release: 2 7/8" flow line	Date and Hour of Occurrence: 5/21/12 time unknown	Date and Hour of Discovery: 5/21/12 at 8:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" 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 flow line developed a leak due to external corrosion. A temporary repair clamp was placed on the pipe.		

Describe Area Affected and Cleanup Action Taken.*
Approximately 720 sq. ft. of caliche road and approximately 600 sq. ft. of pasture land. All of the released fluid soaked into the ground. The remediation will comply with the NMOCD and BLM requirements for spills.

Confirmation soil samples collected from the floor and sidewalls of the PLU #154 excavation were analyzed by an NMOCD-approved laboratory which determined concentrations of BTEX, TPH and Chloride were less than NMOCD Regulatory Standards. The final dimensions of the excavation were approximately 18' x 35' by 18" to 7' in depth. On February 27, 2014, approximately 120 cy of impacted soil was excavated and transported to an NMOCD-approved disposal facility. **Please reference the attached Basin Environmental Services Technologies Remediation Summary and Site Closure Request for details of remediation activities.**

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>OIL CONSERVATION DIVISION</u>	
		Approved by Environmental Specialist:	
Printed Name: Tony Savoie		Approval Date:	Expiration Date:
Title: Waste Management and Remediation Specialist		Conditions of Approval:	
E-mail Address: tasavoie@basspet.com			
Date: 4/1/14	Phone: 432-556-8730	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary



Photograph of the initial release at the PLU #154 Flow Line Release Site.



Photograph of the initial release at the PLU #154 Flow Line Release Site.



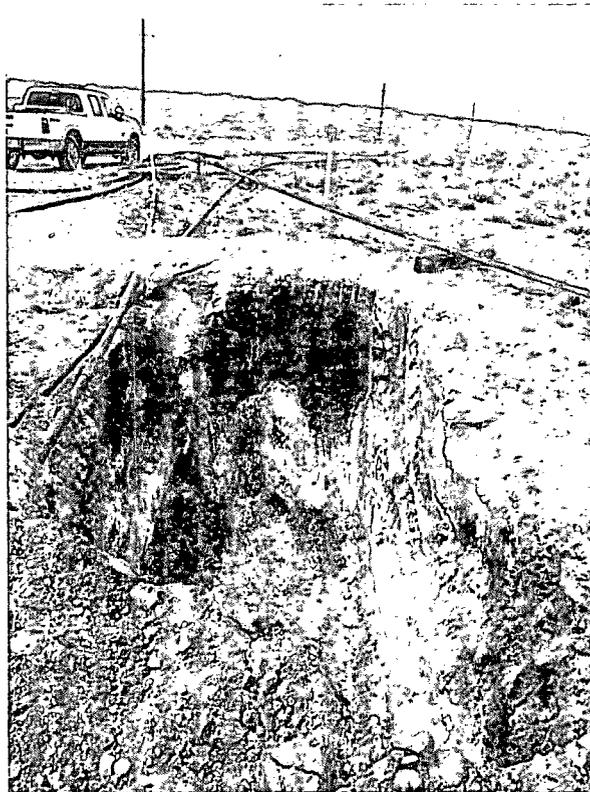
Photograph of initial investigation activities at the PLU #154 Flow Line Release Site.



Photograph of excavation activities at the PLU #154 Flow Line Release Site.



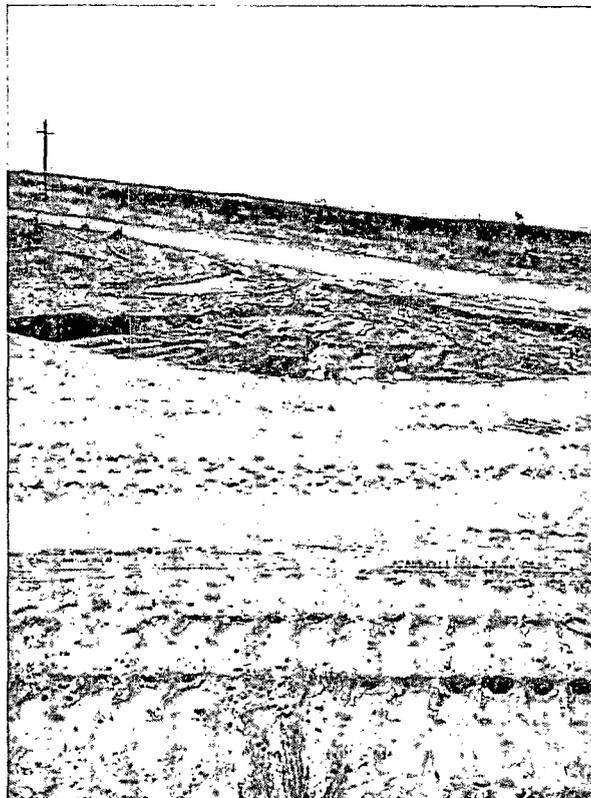
Photograph of excavation activities at the PLU #154 Flow Line Release Site.



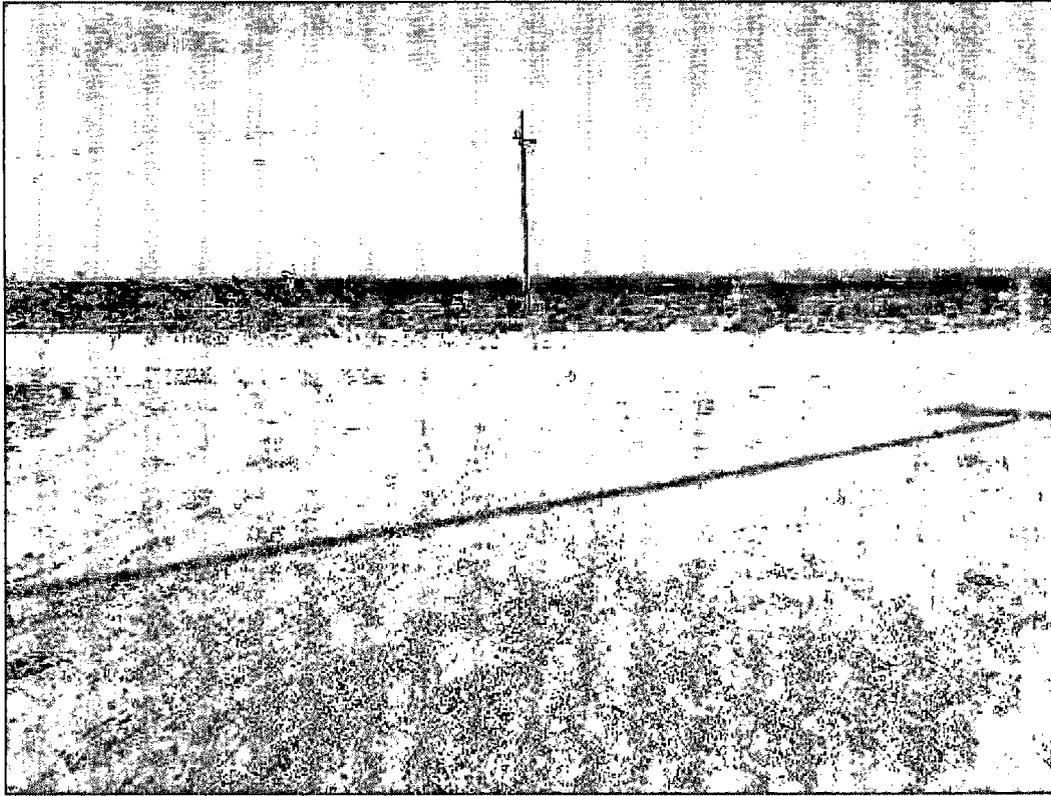
Photograph of excavation activities at the PLU #154 Flow Line Release Site.



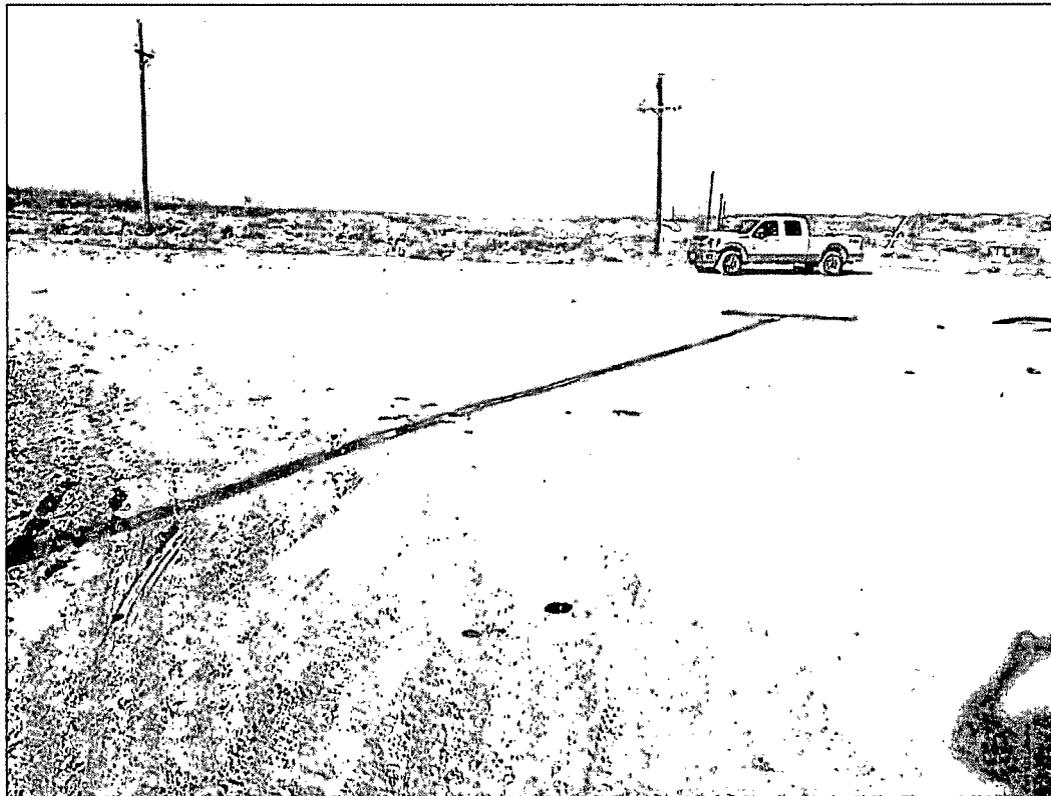
Photograph of backfilling activities at the PLU #154 Flow Line Release Site.



Photograph of PLU #154 Flow Line Release after remediation activities.



Photograph of PLU #154 Flow Line Release after remediation activities.



Photograph of PLU #154 Flow Line Release after remediation activities.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 09, 2013

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #154

Enclosed are the results of analyses for samples received by the laboratory on 12/04/13 10:20.

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, stylized initial 'C'.

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: 12/04/2013
 Reported: 12/09/2013
 Project Name: PLU #154
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

 Sampling Date: 12/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

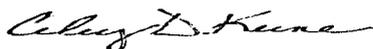
Sample ID: SP #1 @ 1' (H302933-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/09/2013	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2013	ND	193	96.6	200	3.60	
DRO >C10-C28	<10.0	10.0	12/04/2013	ND	190	95.0	200	6.49	
EXT DRO >C28-C35	<10.0	10.0	12/04/2013	ND					
Surrogate: 1-Chlorooctane	99.9 %	65.2-140							
Surrogate: 1-Chlorooctadecane	101 %	63.6-154							

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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: 12/04/2013
 Reported: 12/09/2013
 Project Name: PLU #154
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

 Sampling Date: 12/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #1 @ 3' (H302933-02)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/04/2013	ND	2.11	105	2.00	0.576		
Toluene*	<0.050	0.050	12/04/2013	ND	2.11	106	2.00	1.07		
Ethylbenzene*	<0.050	0.050	12/04/2013	ND	2.09	105	2.00	1.21		
Total Xylenes*	<0.150	0.150	12/04/2013	ND	6.21	104	6.00	0.415		
Total BTEX	<0.300	0.300	12/04/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 123 % 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	3960	16.0	12/09/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/04/2013	ND	193	96.6	200	3.60		
DRO >C10-C28	11.2	10.0	12/04/2013	ND	190	95.0	200	6.49		
EXT DRO >C28-C35	<10.0	10.0	12/04/2013	ND						

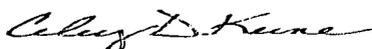
Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 63.6-154

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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: 12/04/2013
 Reported: 12/09/2013
 Project Name: PLU #154
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

 Sampling Date: 12/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #2 @ 1' (H302933-03)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	12/09/2013	ND	416	104	400	3.77		

Sample ID: SP #2 @ 3' (H302933-04)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	12/09/2013	ND	416	104	400	3.77		
TPH 8015M	mg/kg	Analyzed By: ck								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/04/2013	ND	193	96.6	200	3.60		
DRO >C10-C28	<10.0	10.0	12/04/2013	ND	190	95.0	200	6.49		
EXT DRO >C28-C35	<10.0	10.0	12/04/2013	ND						

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

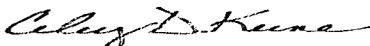
Sample ID: SP #3 @ 1' (H302933-05)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/09/2013	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: 12/04/2013
 Reported: 12/09/2013
 Project Name: PLU #154
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

 Sampling Date: 12/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #3 @ 3' (H302933-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	12/09/2013	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/04/2013	ND	193	96.6	200	3.60		
DRO >C10-C28	<10.0	10.0	12/04/2013	ND	190	95.0	200	6.49		
EXT DRO >C28-C35	<10.0	10.0	12/04/2013	ND						

Surrogate: 1-Chlorooctane 101 % 65.2-140
 Surrogate: 1-Chlorooctadecane 103 % 63.6-154

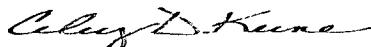
Sample ID: SP #4 @ 1' (H302933-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/09/2013	ND	416	104	400	3.77		

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Analytical Results For:

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

 Received: 12/04/2013
 Reported: 12/09/2013
 Project Name: PLU #154
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY

 Sampling Date: 12/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #4 @ 3' (H302933-08)

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	12/09/2013	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2013	ND	193	96.6	200	3.60	
DRO >C10-C28	<10.0	10.0	12/04/2013	ND	190	95.0	200	6.49	
EXT DRO >C28-C35	<10.0	10.0	12/04/2013	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>103 %</i>	<i>65.2-140</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>105 %</i>	<i>63.6-154</i>						

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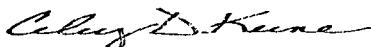
Notes and Definitions

- 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

March 04, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #154 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 02/26/14 13:10.

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: 02/26/2014
 Reported: 03/04/2014
 Project Name: PLU #154 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NSW #1 (H400577-01)

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	02/28/2014	ND	416	104	400	7.41	

Sample ID: ESW #1 (H400577-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/03/2014	ND	416	104	400	0.00	

Sample ID: WSW #1 (H400577-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/03/2014	ND	416	104	400	0.00	

Sample ID: SSW #1 (H400577-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	03/03/2014	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: 02/26/2014
 Reported: 03/04/2014
 Project Name: PLU #154 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SSW B (H400577-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	03/03/2014	ND	416	104	400	0.00		

Sample ID: NM FLOOR @ 6" (H400577-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/03/2014	ND	416	104	400	0.00		

Sample ID: SW FLOOR @ 6" (H400577-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/03/2014	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	03/03/2014	ND	206	103	200	7.94		
DRO >C10-C28	127	10.0	03/03/2014	ND	197	98.7	200	8.31		
EXT DRO >C28-C35	44.9	10.0	03/03/2014	ND						

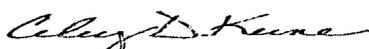
Surrogate: 1-Chlorooctane 81.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.1 % 63.6-154

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Analytical Results For:

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

Received:	02/26/2014	Sampling Date:	02/25/2014
Reported:	03/04/2014	Sampling Type:	Soil
Project Name:	PLU #154 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: EAST FLOOR @ 7' (H400577-08)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2014	ND	2.27	113	2.00	0.367		
Toluene*	<0.050	0.050	03/03/2014	ND	2.21	111	2.00	1.13		
Ethylbenzene*	<0.050	0.050	03/03/2014	ND	2.08	104	2.00	0.277		
Total Xylenes*	<0.150	0.150	03/03/2014	ND	6.26	104	6.00	0.971		
Total BTEX	<0.300	0.300	03/03/2014	ND						

Surrogate: Dibromofluoromethane 92.9 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

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	03/03/2014	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	03/03/2014	ND	206	103	200	7.94		
DRO >C10-C28	<10.0	10.0	03/03/2014	ND	197	98.7	200	8.31		
EXT DRO >C28-C35	<10.0	10.0	03/03/2014	ND						

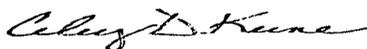
Surrogate: 1-Chlorooctane 94.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.2 % 63.6-154

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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: 02/26/2014
 Reported: 03/04/2014
 Project Name: PLU #154 FLOWLINE
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi He nson

Sample ID: WEST FLOOR @ 18" (H400577-09)

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	03/03/2014	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	03/03/2014	ND	206	103	200	7.94		
DRO >C10-C28	<10.0	10.0	03/03/2014	ND	197	98.7	200	8.31		
EXT DRO >C28-C35	<10.0	10.0	03/03/2014	ND						
<i>Surrogate: 1-Chlorooctane</i>	<i>97.2 %</i>	<i>65.2-140</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>95.6 %</i>	<i>63.6-154</i>								

Sample ID: NSW B (H400577-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	03/03/2014	ND	416	104	400	0.00		

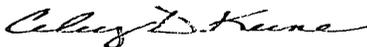
Sample ID: ESW B (H400577-11)

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	03/03/2014	ND	416	104	400	0.00		

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* = Accredited Analyte

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Celest 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

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST													
Project Manager: Joel Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)													
Address: P.O. Box 301				Company: BOPCO, LP																	
City: Lovington		State: NM		Zip: 88260		Attn: Tony Savole															
Phone #: (575)396-2378		Fax #: (575)396-1429		Address: 522 W. Marland																	
Project #:		Project Owner:		City: Carlsbad																	
Project Name: PLU #154 Flow Line				State: NM														Zip: 88220			
Project Location: Eddy Co., NM				Phone #: (432)556-8730																	
Sampler Name: Joel Lowry				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX												PRESERV.		SAMPLING	
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:							
H400571																					
1	NSW #1	G	1			X						X			2/25/14	1120	x				
2	ESW #1	G	1			X						X			2/25/14	1125	x				
3	WSW #1	G	1			X						X			2/25/14	1130	x				
4	SSW #1	G	1			X						X			2/25/14	1135	x				
5	SSWb	G	1			X						X			2/25/14	1140	x				
6	NW Floor @ 6"	G	1			X						X			2/25/14	1145	x				
7	SW Floor @6"	G	1			X						X			2/25/14	1150	x x				
8	East Floor @ 7"	G	1			X						X			2/25/14	1155	x x x				
9	West Floor @ 18"	G	1			X						X			2/25/14	1157	x x				
10	NSW b	G	1			X						X			2/25/14	12:00	x				
11	ESWb	G	1			X						X			2/25/14	12:05	x				

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Relinquished By: <i>Joel Lowry</i>		Date: 2-26-14		Received By: <i>Joel Lowry</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 06:45				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Joel Lowry</i>		Date: 2-26-14		Received By: <i>Joel Lowry</i>		REMARKS:			
		Time: 13:10							
Delivered By: (Circle One) <i>Joel Lowry</i>		Sample Condition		CHECKED BY: <i>JL</i>		Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com			
Sampler - UPS - Bus - Other: FORM-006		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials)					

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