

Basin Environmental Service Technologies, LLC

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Lovington, New Mexico 88260

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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

**BOPCO, LP
POKER LAKE UNIT #213 TRUCK LINE SPILL
Eddy County, New Mexico
API 30-015-33859
Unit Letter "P" (SE/SE), Section 18, Township 24 South, Range 30
East Latitude 32.21252° North, Longitude 103.91408° West
NMOCD Reference #2RP-2953**

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**

September 2015

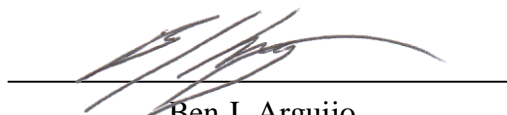

Ben J. Arguijo
Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Poker Lake Unit (PLU) #213 Truck Line Spill. The legal description of the release site is Unit Letter "P" (SE/SE), Section 18, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.21252° North latitude and 103.91408° 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 March 19, 2015, BOPCO discovered a release at the PLU #213 tank battery. A valve on the LACT unit suction and truck load line was left cracked open, resulting in a release of crude oil. During initial response activities, the valve was closed and equipped with a security lock. A vacuum truck was utilized to recover all of the free-standing liquid.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Artesia District Office. The "Release Notification and Corrective Action" (Form C-141) indicated approximately seventy-six barrels (76 bbls) of crude oil were released and approximately fifty barrels (50 bbls) were recovered, for a net loss of twenty-six barrels (26 bbls). The release affected an area of the caliche tank battery pad measuring approximately five thousand, seven hundred sixty square feet (5,760 ft²).

Remedial activities at the PLU #213 Truck Line Spill release site were conducted in conjunction with ongoing remediation of other releases on/around the caliche pad.

The Form C-141 is provided as Appendix A. General photographs of the release site are provided in 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 approximately two hundred feet fifteen (215') 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 PLU #213 Truck Line Spill 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
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) – 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) – 5,000 mg/kg

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 April 2, 2015, Basin Environmental commenced excavation of impacted soil at the site. A chloride field-test kit and olfactory/visual senses were utilized to determine the vertical and horizontal extent of impacted soil and to guide the excavation. Excavated soil was stockpiled on plastic on the caliche pad, pending final disposition.

Four (4) soil samples (N. Floor, S. Floor, E. Floor, and W. Floor) were collected from the floor of the excavation and submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of BTEX, TPH, and chloride concentrations using the Environmental Protection Agency (EPA) analytical methods listed in Section 4.1, “Soil Sampling”, below. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory method detection limit (MDL) in all submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in samples N. Floor and S. Floor to 1,256 mg/kg in sample E. Floor. Chloride concentrations ranged from 80.0 mg/kg in sample N. Floor to 928 mg/kg in sample W. Floor.

A summary of “Concentrations of Benzene, BTEX, TPH & Chloride in Soil” is provided in Table 1. A “Sample Location Map” is provided as Figure 2. Laboratory analytical reports are provided in Appendix C.

From April 2 through April 6, 2015, approximately sixty cubic yards (60 yd³) of impacted soil was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035), for disposal.

On April 6, 2015, based on laboratory analytical results, field-screens, and olfactory/visual senses, the excavation was backfilled with locally acquired, non-impacted material, compacted, and leveled to match the surrounding caliche pad. Prior to backfilling, the final dimensions of the excavation were approximately eighty feet (80') in length, twelve (12) to fifty-five feet (55') in width, and two (2) to three inches (3") in depth.

4.0 QUALITY ASSURANCE/QUALITY CONTROL (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 floors the PLU #213 Truck Line Spill excavation were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, TPH, and chloride were below the recommended remediation action levels established for the site by the NMOCD. Basin Environmental recommends BOPCO provide the NMOCD Artesia District Office and the NMSLO a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the PLU #213 Truck Line Spill release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental 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, NM 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



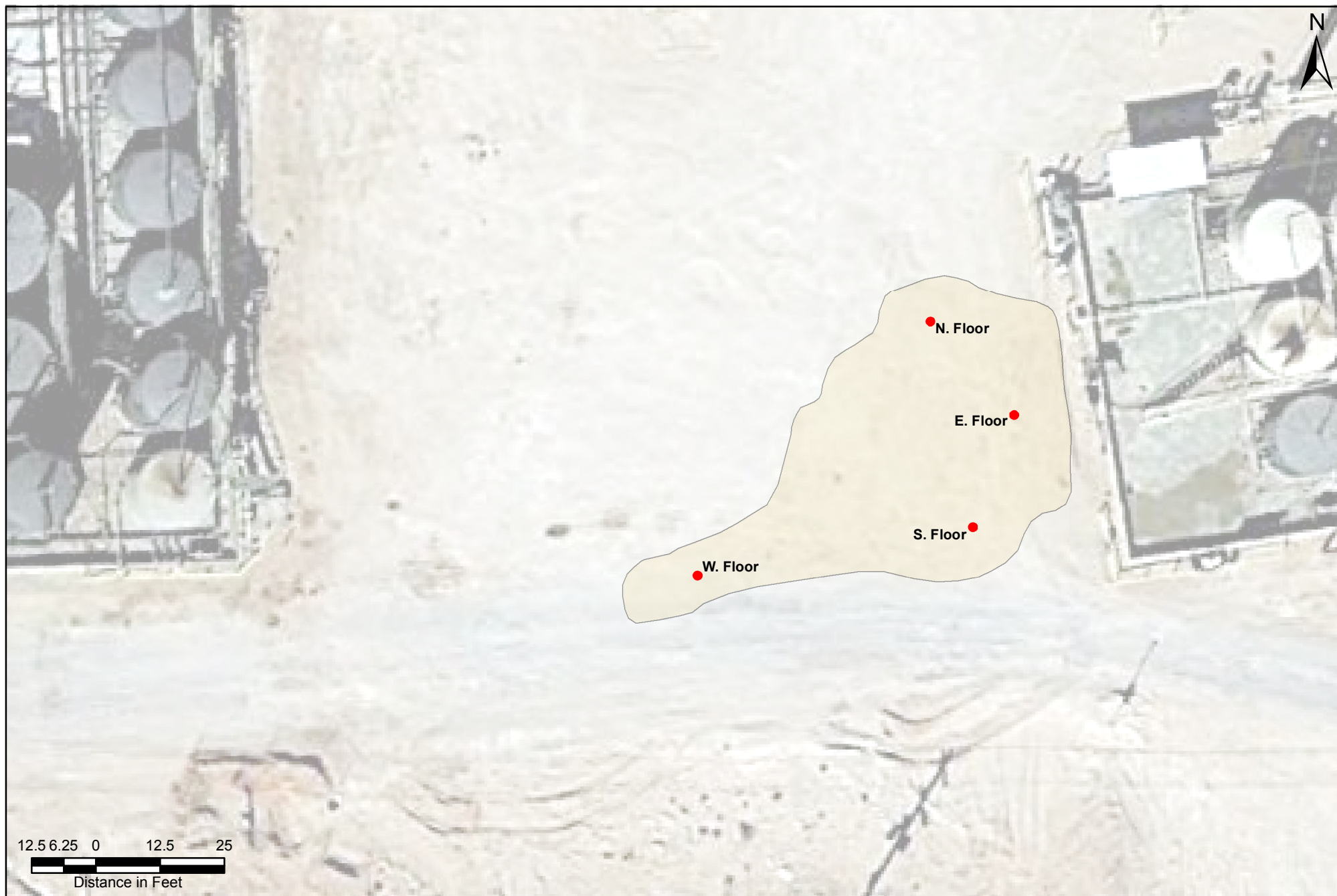
Figure 1
Site Location Map
BOPCO, LP
Poker Lake Unit #213 Truck Line Spill
Eddy County, New Mexico
NMOCD Reference #: 2RP-2953



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

Drawn By: BJA	Checked By: BRB
June 1, 2015	Scale: 1" = 2,000'

1,000 500 0 1,000 2,000
 Distance in Feet



Legend

Excavation ● Sample Location

Figure 2
Sample Location Map
BOPCO, LP
Poker Lake Unit #213 Truck Line Spill
Eddy County, New Mexico
NMOCD Reference #: 2RP-2953



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

Drawn By: BJA	Checked By: HST
Sept. 25, 2015	Scale: 1" = 25'

Tables

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

BOPCO, LP
POKER LAKE UNIT #213 TRUCK LINE SPILL
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-2953

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TPH C ₆ -C ₃₅ (mg/Kg)	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)		CHLORIDE (mg/Kg)
N. Floor	2"	4/2/2015	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
S. Floor	2"	4/2/2015	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	735
E. Floor	2"	4/2/2015	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	1,030	226	1,256	768
W. Floor	2"	4/2/2015	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	170	36.0	206	928
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

Appendices

Appendix A
Release Notification &
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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

MAR 25 2015

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

RECEIVED

Release Notification and Corrective Action

NAB1510636750		OPERATOR	<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> 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: PLU-213 Tank Battery "Oil Production"		Facility Type: Exploration and Production		
Surface Owner: Federal		Mineral Owner: Federal		API No. 30-015-33859

LOCATION OF RELEASE

Unit Letter P	Section 18	Township 24S	Range 30E	Feet from the 860	North/South Line South	Feet from the 660	East/West Line East	County: Eddy
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Latitude N 32.21252 Longitude W 103.91408

NATURE OF RELEASE

Type of Release: Crude oil	Volume of Release: 76 Bbls	Volume Recovered: 50 Bbls
Source of Release: 4" Truck Load line Valve	Date and Hour of Occurrence: 3/19/15 time unknown	Date and Hour of Discovery: 3/19/15 at approximately 9:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Heather Patterson	
By Whom? Amy Ruth	Date and Hour: 3/19/15 at approximately 10:30 a.m. and a follow up at 4:50 p.m. on volume estimate.	
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.* A valve on the last unit suction and truck load line was discovered cracked open. A chemical salesman discovered the spill, closed the valve and notified BOPCO. The valve has been locked in the closed position.		
Describe Area Affected and Cleanup Action Taken.* The spill impacted approximately 5760 sq.st. of caliche tank battery pad. All of the free standing fluid was picked up with a vacuum truck. After receiving permission from the NM one-call system a front loader was used to scrape up the saturated soil and stockpile on site. A remediation in the area was scheduled to begin on 3/23/15.		
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 Brennan</u>	
Title: Waste Management and Remediation Specialist	Approved by Environmental Specialist:	
E-mail Address: tasavoie@basspet.com	Approval Date: <u>4/16/15</u>	Expiration Date: <u>N/A</u>
Date: <u>3/25/15</u> Phone: 432-556-8730	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
3015 REMEDIATION PROPOSAL NO		
TER THAN: <u>5/11/15</u>		

* Attach Additional Sheets If Necessary

22P-2953

Appendix B

Photographs



Poker Lake Unit #213 Truck Line Spill - Excavation



Poker Lake Unit #213 Truck Line Spill - Excavation

Appendix C

Laboratory Analytical Reports

April 10, 2015

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #213 TRUCK LINE SPILL

Enclosed are the results of analyses for samples received by the laboratory on 04/06/15 11:52.

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
BEN J. ARGUIJO
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/06/2015	Sampling Date:	04/02/2015
Reported:	04/10/2015	Sampling Type:	Soil
Project Name:	PLU #213 TRUCK LINE SPILL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: N. FLOOR (H500904-01)

BTX 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	04/09/2015	ND	1.91	95.5	2.00	3.64	
Toluene*	<0.050	0.050	04/09/2015	ND	1.75	87.4	2.00	0.366	
Ethylbenzene*	<0.050	0.050	04/09/2015	ND	1.70	85.1	2.00	0.951	
Total Xylenes*	<0.150	0.150	04/09/2015	ND	5.36	89.3	6.00	0.554	
Total BTX	<0.300	0.300	04/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

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	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	191	95.4	200	0.113	
EXT DRO >C28-C35	<10.0	10.0	04/07/2015	ND					

Surrogate: 1-Chlorooctane 87.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.8 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/06/2015	Sampling Date:	04/02/2015
Reported:	04/10/2015	Sampling Type:	Soil
Project Name:	PLU #213 TRUCK LINE SPILL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E. FLOOR (H500904-02)

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	04/09/2015	ND	1.91	95.5	2.00	3.64		
Toluene*	<0.050	0.050	04/09/2015	ND	1.75	87.4	2.00	0.366		
Ethylbenzene*	<0.050	0.050	04/09/2015	ND	1.70	85.1	2.00	0.951		
Total Xylenes*	<0.150	0.150	04/09/2015	ND	5.36	89.3	6.00	0.554		
Total BTEx	<0.300	0.300	04/09/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	04/08/2015	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	<50.0	50.0	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	1030	50.0	04/07/2015	ND	191	95.4	200	0.113	
EXT DRO >C28-C35	226	50.0	04/07/2015	ND					

Surrogate: 1-Chlorooctane 82.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/06/2015	Sampling Date:	04/02/2015
Reported:	04/10/2015	Sampling Type:	Soil
Project Name:	PLU #213 TRUCK LINE SPILL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S. FLOOR (H500904-03)

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	04/09/2015	ND	1.91	95.5	2.00	3.64	
Toluene*	<0.050	0.050	04/09/2015	ND	1.75	87.4	2.00	0.366	
Ethylbenzene*	<0.050	0.050	04/09/2015	ND	1.70	85.1	2.00	0.951	
Total Xylenes*	<0.150	0.150	04/09/2015	ND	5.36	89.3	6.00	0.554	
Total BTEx	<0.300	0.300	04/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	735	16.0	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	191	95.4	200	0.113	
EXT DRO >C28-C35	<10.0	10.0	04/07/2015	ND					

Surrogate: 1-Chlorooctane 89.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.7 % 52.1-176

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
BEN J. ARGUIJO
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	04/06/2015	Sampling Date:	04/02/2015
Reported:	04/10/2015	Sampling Type:	Soil
Project Name:	PLU #213 TRUCK LINE SPILL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: W. FLOOR (H500904-04)

BTX 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	04/09/2015	ND	1.91	95.5	2.00	3.64		
Toluene*	<0.050	0.050	04/09/2015	ND	1.75	87.4	2.00	0.366		
Ethylbenzene*	<0.050	0.050	04/09/2015	ND	1.70	85.1	2.00	0.951		
Total Xylenes*	<0.150	0.150	04/09/2015	ND	5.36	89.3	6.00	0.554		
Total BTX	<0.300	0.300	04/09/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	928	16.0	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	170	10.0	04/07/2015	ND	191	95.4	200	0.113	
EXT DRO >C28-C35	36.0	10.0	04/07/2015	ND					

Surrogate: 1-Chlorooctane 88.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.2 % 52.1-176

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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

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 Project Manager: Ben Arguijo Address: P.O. Box 301 City: Lovington State: NM Zip: 88260 Phone #: (575)396-2378 Fax #: (575)396-1429 Project #: Project Owner: BOPCO Project Name: PLU #213 Truck Line Spill Project Location: Eddy Co., NM Sampler Name: Steve Taylor				BILL TO P.O. #: Company: BOPCO, LP Attn: Tony Savoie Address: 522 W. Marland City: Carlsbad State: NM Zip: 88220 Phone #: (432)556-8730 Fax #:				ANALYSIS REQUEST															
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		Chloride TPH (8015M) BTEX (8021B)											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS																	
H500904																							
1		N. Floor		G 1		X		X		4/2/15 1500		X											
2		E. Floor		G 1		X		X		4/2/15 1505		X											
3		S. Floor		G 1		X		X		4/2/15 1510		X											
4		W. Floor		G 1		X		X		4/2/15 1515		X											
		307																					

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Relinquished By: Steve Taylor Date: 4/2/15 Time: 1:00 Relinquished By: Date: 4/6/15 Time: 11:52		Received By: Jodi Henson Date: 4/6/15 Time: 11:52		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: Please email results to Ben Arguijo, Tony Savoie & Amy Ruth. Hold for TPH & BTEX. * Added 4/7/15 by Tony	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)	

Revision 1.0

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

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