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REMEDIATION SUMMARY

AND RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP

POKER LAKE UNIT #295 FLOW LINE & POKER LAKE UNIT #216 FLOW LINE

Eddy County, New Mexico Unit Letter "M" (SW/SW), Section 17, Township 24 South, Range 30 East Latitude 32.211958° North, Longitude 103.911742° West NMOCD Reference #2RP-1729 & 547

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

January 2015

Joel W. Lo Project Mahager

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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 Risk-Based Site Closure Request* for the release sites known as Poker Lake Unit #295 Flow Line (PLU #295) and Poker Lake Unit #216 Flow Line (PLU #216). The legal description of the release site is Unit Letter "M" (SW/SW), Section 17, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.211958° North latitude and 103.911742° 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 June 26, 2013, BOPCO discovered a release had occurred on the PLU #295 flow line. The "Release Notification and Corrective Action" (Form C-141) indicated failure of a section of two and seven-eighths inch (2 7/8") steel flow line resulted in the release of two barrels (2 bbls) of crude oil and eighteen (18 bbls) of produced water. The release effected approximately one thousand square feet (1,000 ft²) of Rawhide Road and approximately five hundred square feet (500 ft²) of pasture. During initial response activities, a temporary pipeline clamp was placed on the pipe. The affected section of pipe has since been replaced. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

On July 1, 2014, an additional non-reportable release occurred adjacent to the previous release site. Failure of a section of two and seven-eighths inch (2 7/8") steel flow line resulted in the release of approximately two barrels (2 bbls) of crude oil and two barrels (2 bbls) of produced water. The release originated in the same area as the reportable release and flowed south, affecting soil within the bar ditch on the east side of Rawhide Road. Remediation of the June 26, 2013, reportable release and the July 1, 2014, non-reportable release will be conducted simultaneously.

Review of environmental records indicate an additional reportable release occurred at the same road crossing in 2010. The initial Form C-141 indicates that on March 21, 2010, BOPCO discovered a release on the Poker Lake Unit #216 flow line. It is estimated that approximately twenty-five barrels (25 bbls) of crude oil along with twenty-five barrels (25 bbls) of produced water were released with approximately forty barrels (40 bbls) of total fluid having been recovered. The release affected approximately one thousand square feet (1,000 ft²) of Rawhide Road along with one thousand, eight hundred square feet (1,800 ft²) of adjacent pasture land. The area in the road was excavated to repair the line. Limited remediation activities were conducted at the release site; final closure was never sought.

As per the NMOCD, the March 21, 2010 and June 26, 2013, reportable releases will be closed under one cover.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 17, Township 24 South, Range 30 East. A depth to groundwater reference map utilized by the New Mexico Oil Conservation Division (NMOCD) indicates groundwater should be encountered between one hundred and seventy-five (175) and two hundred feet (200') 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 #295 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)
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) 50 mg/Kg (ppm)
- Total Petroleum Hydrocarbons (TPH) 5,000 mg/Kg (ppm)

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On November 11, 2014, Basin conducted an initial investigation at the release site. During the investigation, a series of hand-augered soil bores were advanced at the release point and along the inferred release flow path in an effort to determine the vertical and horizontal extent of soil impact. Three (3) soil samples (RP-1 @ 1', RP-1 @ 5' and RP-1 @ 10') were collected from the release point and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 4,000 ppm for soil sample RP-1 @ 1' to 1,060 ppm for soil sample RP-1 @ 10'. Soil sample RP-1 @ 1' was also analyzed for concentrations of BTEX and TPH, which were determined to be 0.152 ppm and 2,918 ppm, respectively. A summary of "Concentrations of Benzene, BTEX, TPH & Chloride in Soil" is provided in Table 1. A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

Thirteen (13) soil samples (Road #1 @ 3", Road #1 @ 1', Road #2 @ 3", Road #3 @ 3", Road #4 @ 3", Road #5 @ 3", Road #6 @ 3", Road #6 @ 1', Road #6 @ 3', Road #6 @ 5', Road #6 @ 7', Road #6 @ 9' and Road #6 @ 11') were collected from the affected portion of Rawhide Road at approximate fifty-foot (50') increments and submitted to the laboratory for analysis of chloride concentration. Laboratory analytical results indicated chloride concentrations ranged from 4,640 ppm for soil sample Road #1 @ 1' to 176 ppm for soil sample Road #4 @ 3". Each of the submitted soil samples exhibited chloride concentrations below NMOCD regulatory standards with the exception of soil samples Road #1 @ 1' and Road #6 @ 1'. Soil samples Road #1 @ 3", Road #2 @ 3", Road #3 @ 3", Road #4 @ 3", Road #5 @ 3" and Road #6 @ 3" were also analyzed for concentrations of TPH. Analytical results indicated TPH concentrations were less than the laboratory method detection limit (MDL) for each of the submitted soil samples with the exception

of Road #1 @ 3", which exhibited a TPH concentration of 201 ppm. Soil sample Road #1 @ 3" was also analyzed for concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL.

In addition, four (4) soil samples (Middle @ 1', Middle @ 4', Middle @ 5' and End @ 1') were collected from the affected bar ditch and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 5,120 ppm for soil sample Middle @ 1' to 48.0 ppm for soil sample End @ 1'. Soil sample Middle @ 1' was also analyzed for concentrations of BTEX and TPH, which were determined to be 2.95 ppm and 3,927 ppm, respectively.

On November 13, 2014, additional delineation trenches were advanced in the areas represented by sample points Road #1 and RP. Six (6) soil samples (Road #1 @ 3', Road #1 @ 5', Road #1 @ 7', Road #1 @ 9', Road #1 @ 11' and Road #1 @ 13') were collected at two foot intervals from sample point Road #1 and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 704 ppm for soil sample Road #1 @ 3' to 400 ppm for soil samples Road #1 @ 11' and Road #1 @ 13'. Soil sample Road #1 @ 13' was also analyzed for concentrations of BTEX and TPH which were determined to be less than the appropriate laboratory MDL.

One (1) additional soil sample (RP @ 11') was collected from a delineation trench advanced at the release point and submitted to the laboratory for analysis of chloride concentrations which were determined to be 704 ppm.

On November 18, 2014, Basin began excavating impacted soil in the southern portion of the affected bar ditch. 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.

On November 21, 2014, three (3) confirmation soil samples (ESW #2, WSW #2 and Floor #2) were collected from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical resulting indicated chloride concentrations ranged from 160 ppm for soil sample ESW #2 to less than the laboratory MDL for soil sample WSW #2. Soil sample Floor #2 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL.

On December 5, 2014, five (5) soil samples (NSW #1, WSW #1, ESW #3, SSW #3 and WSW #3) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical resulting indicated chloride concentrations ranged from 5,120 ppm for soil sample WSW #1 to less than the laboratory MDL for soil samples SSW #3 and WSW #3. The excavation was advanced in the area represented by soil sample WSW #1.

One (1) soil sample (RP @ 13') was collected from a delineation trench advanced at the release point and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the concentration of chloride was 240 ppm. Based on laboratory analytical results it was determined that vertical delineation had been achieved.

On December 17, 2015, three (3) confirmation soil samples (ESW #1, WSW #1b and Floor #1 [In-Situ]) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 4,720 ppm for soil sample Floor #1 [In-Situ] to less than the laboratory MDL for soil sample ESW #1. Soil sample Floor #1 [In-Situ] was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL.

On December 18, 2014, NMOCD and BOPCO representatives met to discuss remediation activities on the PLU #295 flow line release site. During the meeting, it was determined excavating additional affected soil from the oil field access roads posed a risk to public safety and would impede traffic.

On December 19, 2014, upon advancing the excavation to the maximum extent practicable, Basin began backfilling the excavated area with locally purchased, non-impacted soil. Excavation backfill was compacted and contoured to match the surrounding topography.

Between December 17 and 30, 2014, approximately three hundred and forty cubic yards (340 yd^3) of impacted material was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035) for disposal. Prior to backfilling, the final dimensions of the excavation were approximately ten (10) to twenty-two feet (22') in width, one hundred and forty feet (140') in length and one (1) to four feet (4') in depth.

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

Remediation activities conducted at the PLU #295 Flow Line and PLU #216 Flow Line release sites met the objectives set forth by the NMOCD. Impacted soil was excavated to the maximum extent practicable given the numerous active pipelines and proximity of widely used oil field access roads. Confirmation soil samples collected from the floor and sidewalls of the PLU #295 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 Floor #1 [In-Situ]. 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 Risk-Based Site Closure Request* and request the NMOCD grant site closure to the PLU #295 Flow Line and PLU #216 Flow Line release sites.

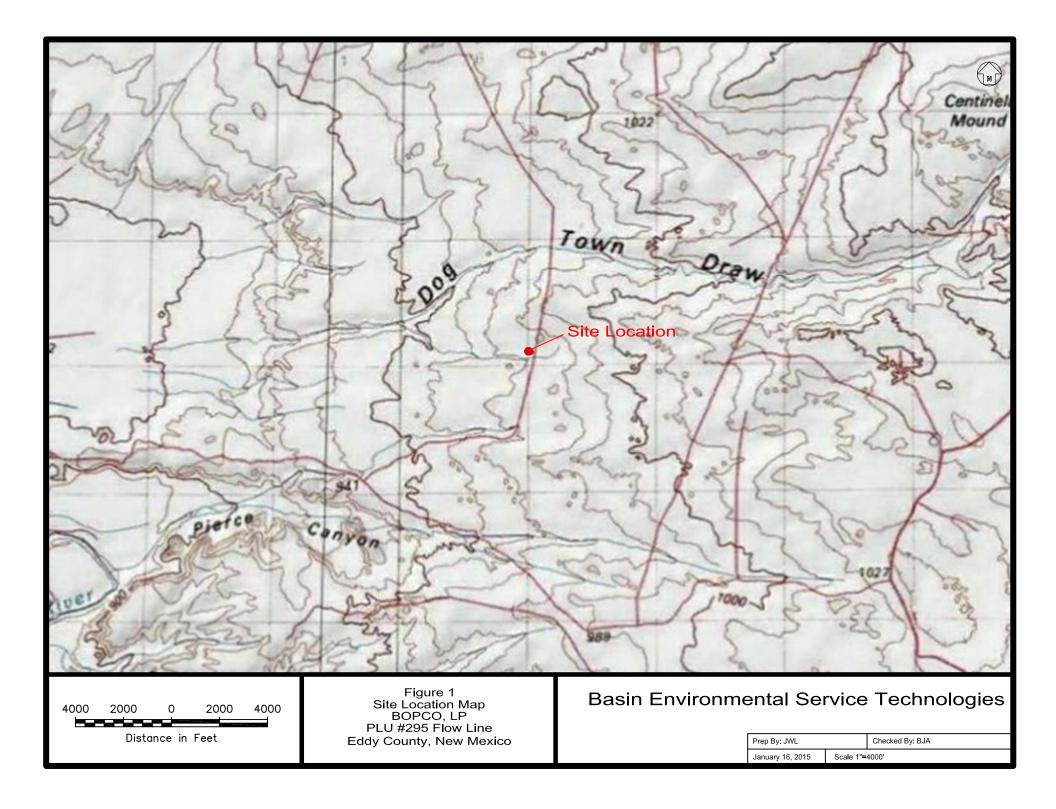
6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Risk-Based 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



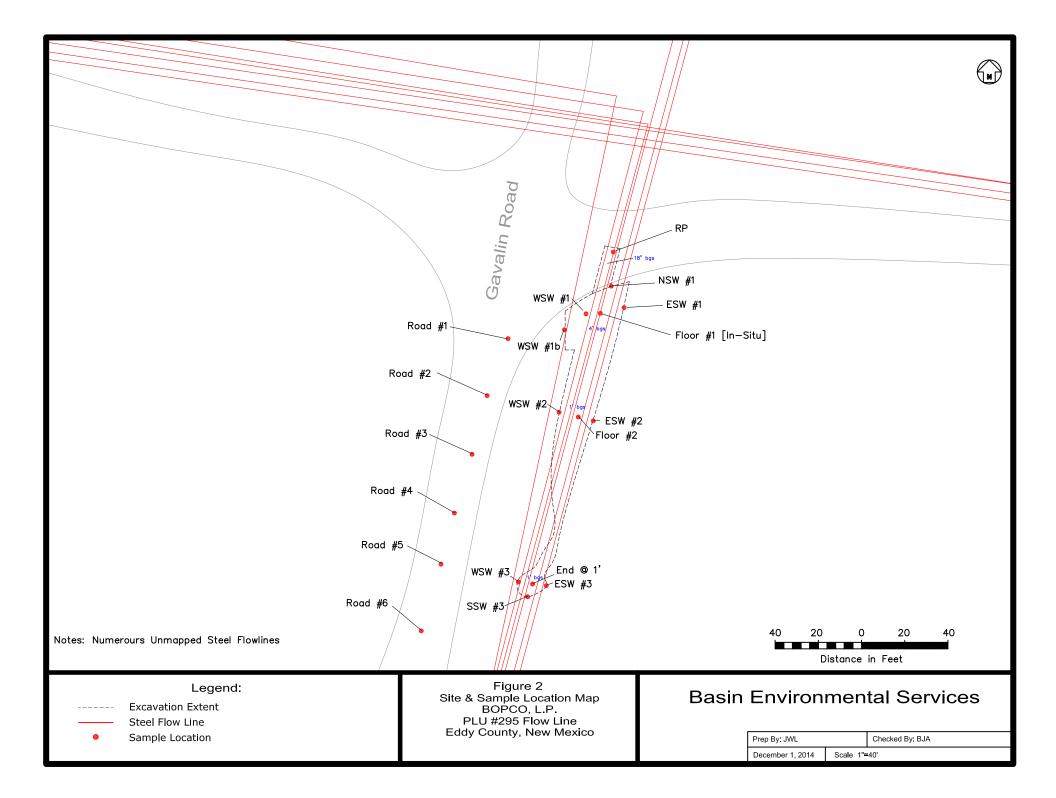


TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP PLU #295 FLOW LINE EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-1729

	0 4 M DI F		Г	METHOD: EPA SW 846-8021B, 5030			METHOD: 8015M			TOTAL	4500 CI-B		
SAMPLE	SAMPLE	SAMPLE	SOIL	DENJENE		ETHYL-	TOTAL	TOTAL	GRO	DRO	ORO	TPH	CHLORID
LOCATION	DEPTH	DATE	STATUS	BENZENE		BENZENE	XYLENES	BTEX	C6-C12	C12-C28	C28-C35	C6-C35	Е
	(BGS)			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(ma/Ka)	(ma/Ka)	(mg/Kg)	(mg/Kg)	(mg/Kg)
RP-1 @ 1'	1'	11/11/2014	In-Situ	< 0.050	< 0.050	< 0.050	0.152	0.152	<100	2,500	418	2,918	4,000
RP-1 @ 5'	5'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,760
RP-1 @ 10'	10'	11/11/2014		-	-	-	-	-	-	-	-	-	1,060
Road #1 @ 3"	3"	11/11/2014	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	169	32.2	201	672
Road #1 @ 1'	1'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	4,640
Road #2 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	224
Road #3 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	432
Road #4 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	176
Road #5 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	272
Road #6 @ 3"	3"	11/11/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	368
Road #6 @ 1'	1'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	1.180
Road #6 @ 3'	3'	11/11/2014		-	-	-	-	-	-	-	-	-	912
Road #6 @ 5'	5'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	880
Road #6 @ 7'	7'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	512
Road #6 @ 9'	9'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	544
Road #6 @ 11'	11'	11/11/2014	In-Situ	-	-	-	-	-	-	-	-	-	496
			in ond										100
Middle @ 1'	1'	11/11/2014	Excavated	<0.100	<0.100	0.328	2.62	2.95	270	3,150	507	3,927	5.120
Middle @ 4'	4'	11/11/2014	In-Situ	-	-	-				-	-	-	896
Middle @ 5'	5'	11/11/2014		-	-	-	-	-	-	-	-	-	224
End @ 1'	1'	11/11/2014		-	-	-	-	-		-	-	-	48.0
	·	11/11/2014											40.0
Road #1 @ 3'	3'	11/13/2014	In-Situ	-			-	-		-	-		704
Road #1 @ 5'	5'	11/13/2014		-	-	-	-	-	-	-	-	-	384
Road #1 @ 7'	7'	11/13/2014	In-Situ	-	-	-	-	-	-	-	-	-	464
Road #1 @ 9'	9'	11/13/2014	In-Situ	-	-	-	-	-	-	-	-	-	384
Road #1 @ 11'	11'	11/13/2014		-	-	-	-	-	-	-	-	-	400
Road #1 @ 13'	13'	11/13/2014	In-Situ	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	400
Rodd #1 @ 10	10	11/10/2014	in onu	20.000	<0.000	<0.000	<0.100	<0.000	\$10.0	<10.0	<10.0	10.0	400
RP @ 11'	11'	11/13/2014	In-Situ	-	-		-	-		-	-	-	704
		11/10/2011	in ond										101
ESW #2	2'	11/21/2014	In-Situ	-	-		-	-		-	-	-	160
WSW #2	2'	11/21/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
Floor #2	3'	11/21/2014		< 0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	48.0
			in ond	-0.000	\$0.000	\$0.000	\$0.100	-0.000	\$10.0	\$10.0	\$10.0	\$10.0	-10.0
NSW #1	3'	12/5/2014	In-Situ	-			-			-	-	-	432
WSW #1	3'	12/5/2014		-						-	-	-	5,120
ESW #3	6"	12/5/2014	In-Situ	-					-	-	-	-	16.0
SSW #3	6"	12/5/2014	In-Situ	-	-	-	-			-	-	-	<16.0
WSW #3	6"	12/5/2014	In-Situ In-Situ	-	-	-	-	-	-	-	-	-	<16.0
11011 #3	0	12/3/2014	in-ond	-	-	-	-	-	-	-	-	-	<10.0
RP @ 13'	13'	12/5/2014	In-Situ	-	-	-	-		-	-	-	-	240
NI @ 10	10	12/3/2014	in-Situ		-				-	-	-	-	240
ESW #1	2'	12/17/2014	In-Situ				-			-	-	-	<16.0
WSW #1b	2'	12/17/2014		-	-	-	-	-	-	-	-	-	496
Floor #1 [In-Situ]	4'	12/17/2014		< 0.050	< 0.050	< 0.050	- <0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	490
1 1001 #1 [III-SIIU]	4	12/11/2014	in-Silu	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,720
NMOCD Criteria				10				50				5.000	1.000
- = Not analyzed.	1	1		10								0,000	1,000

- = Not analyzed.

	RECEIVED
1625 N. French Dr., Hobbs, NM 88240	f New Mexico Form C-141
811 S. First St., Artesia, NM 88210	
1000 Rio Brazos Road, Aztec, NM 87410	ervation Division NMOCD ^{it} ART acceleration District Office in the second sec
1220 C. C. F. A. D. C. J. F. NIM 07505	th St. Francis Dr.
	Fe, NM 87505
Til (Release Notificatio	on and Corrective Action
NMW 1319840879	OPERATOR Initial Report Final Report
Name of Company: BOPCO, L.P. 260737	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 Facility Name: PLU-295 The spill location is 800 ft. east of the	Telephone No. 575-887-7329 Facility Type: Exploration and Production
PLU-213 Tank Battery and approximately 5080 ft. north east	
of the well location.	
Surface Owner: Federal Mineral Owner	:: Federal API No. 30-015-35549
	DN OF RELEASE
	th/South Line Feet from the East/West Line County
M 17 248 30E	Eddy
Latitude <u>N 32.2119</u>	58_Longitude <u>W 103.911742</u>
NATURI	E OF RELEASE
Type of Release: Crude oil and produced water	Volume of Release: 2 bbls oil and Volume Recovered: 0 18 bbls water
Source of Release: 2 7/8" flow line	Date and Hour of Occurrence Date and Hour of Discovery
Was Immediate Notice Given?	6/26/13 time unknown 6/26/13 at 8:00 a.m. If YES, To Whom? 6/26/13 at 8:00 a.m.
Yes No X Not Required	
By Whom?	Date and Hour
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
If a Watercourse was Impacted, Describe Fully.*	
in a watercourse was impacted, Describe Fully.*	
Describe Cause of Problem and Remedial Action Taken.*	
The flow developed a leak due to external corrosion, a temporary leak c	lamp was placed on the pipe. The bad section of pipe will be replaced.
Describe Area Affected and Cleanup Action Taken.*	
Approximately 1000 sq. If of the rawnide road and approximately 500 s remediated in accordance to the NMOCD and BLM guidelines.	q. ft. of pasture. All of the spilled fluid soaked into the ground, the spill area will be
	the best of my knowledge and understand that pursuant to NMOCD rules and 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
	ate contamination that pose a threat to ground water, surface water, human health does not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	dees not reneve the operator of responsionity for compnance with any other
	OIL CONSERVATION DIVISION
Signature: 1 au Dounie	A .
Printed Name: Tony Savoie	Approved by Environmental Specialist: Signed By Mile Bennet
	JUL 1 6 2013
Title: Waste Management and Remediation Specialist	Approval Date: Expiration Date:
E-mail Address: tasavoie@basspet.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & Attached
Date: 7/14/13 Phone: 432-556-8730	like approval by BLM. SUBMIT REMEDIATION
* Attach Additional Sheets If Necessary	PROPOSAL NO LATER THAN: 2RP-1729
	Hugust Ilepter J

<u>ict 1</u> N. French Dr., Hobbs, NM 88240 <u>ict II</u> W. Grand Avenue, Artesia, NM 88210 <u>ict III</u> Rio Brazos Road, Aztec, NM 87410 <u>ict IV</u> S. St. Francis Dr., Santa Fe, NM 87505	Energy Minerals Oil Conse 1220 Sour	ervation Division	RECEIVED MAR 31 2010Submi Dist NMOCD ARTESIA	2 Copies to appropriate
-015-33861	Release Notification	on and Correctiv	ve Action	
W 1101252818		OPERATOR	🛛 Initial Repo	ort 🔲 Final Report
me of Company BOPCO, L.P.	260737	Contact Tony Savoie		

Name of Company BOI CO, L.I.	100191	Contact Tony Savoic		
Address 522 W. Mermod, Suite 704 C	arlsbad, N.M. 88220	Telephone No. 432-556-	8730	
Facility Name Poker Lake Unit #216		Facility Type E&P		
	· · · · · ·			
Surface Owner Federal	Mineral Own	er Federal	Lease No.	

LOCATION OF RELEASE

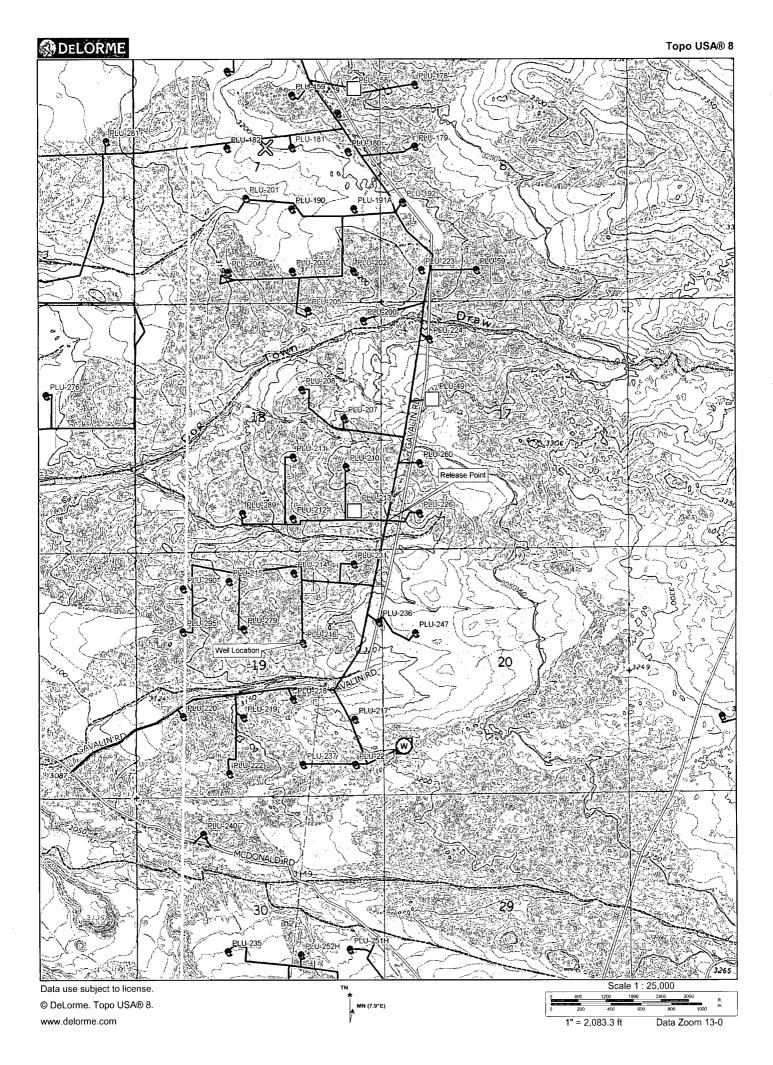
Unit Letter M	Section 17	Township 24S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy	

Latitude_N 32.21200___ Longitude W 103.91197

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 25 Bbls of Produced water and 25 Bbls of crude oil Volume Recovered: 40 Bbls							
Source of Release: Flow Line	Date and Hour of OccurrenceDate and Hour of Discovery3/21/10 Approximately 8:00 p.m.3/21/10 8:30 p.m.							
Was Immediate Notice Given?	If YES, To Whom? NMOCD Emergency #104 "Randy"							
By Whom? Tony Savoie	Date and Hour 3/22/10 12:06 p.m.							
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.							
If a Watercourse was Impacted, Describe Fully.*	•							
conduit under the road with approximately 20 other flow lines. Crews sta vacuum truck was on-site and began recovering oil from the excavated and								
land. The area in the road was excavated to repair the line, due to the nun	proximately 1000 sq.ft. of lease road and approximately 1800 sq. ft. of pasture ober of lines in the conduit and traffic requirements soil samples were collected neated and a remediation plan will be submitted in accordance with the NMOCD							
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: Drug Danie Printed Name: Tony Savoie	OIL CONSERVATION DIVISION Approved by District Supervisor Signed By							
Title: Waste Mgmt.& Remediation Specialist	Approval Date: Expiration Date:							
E-mail Address: TASavoie@BassPet.com Date: 3/29/10 Phone:432-556-8730	Conditions of Approval: Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION							
Attach Additional Sheets If Necessary	PROPOSAL NOT LATER THAN: $2RP 547$							

7 7





Photograph of June 26, 2013, release at the PLU #295 Flow Line Remediation Site.



Photograph of surface staining from July 1, 2014, release at the PLU #295 Flow Line Remediation Site.



Photograph of surface staining from July 1, 2014, release at the PLU #295 Flow Line Remediation Site.



Photograph of excavation activities at the PLU #295 Flow Line Remediation Site.



Photograph of excavation activities at the PLU #295 Flow Line Remediation Site.



Photograph of the PLU #295 Flow Line Release Site after remediation activities.



November 14, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/12/14 13:40.

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

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: RP @ 1' (H403481-01)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	0.152	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	61-154							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	11/13/2014	ND	400	100	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	2500	100	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	418	100	11/13/2014	ND					
Surrogate: 1-Chlorooctane	126	47.2-15	7						
Surrogate: 1-Chlorooctadecane	203	52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: RP @ 5' (H403481-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: RP @ 10' (H403481-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/13/2014	ND	400	100	400	7.69	

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*=Accredited Analyte

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Celeg D. Keine



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-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

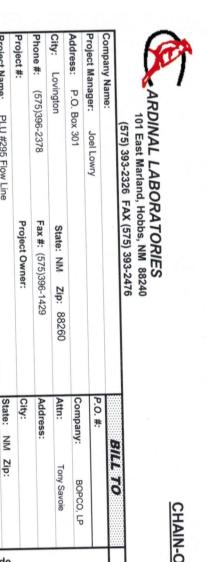
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Celey D. Keine

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(575) 393-22476 BL TO State: NM Zip 8260 Attn::: Tory Savoie Tory Savoie PIU #295 Flow Line Fax #: (575) 393-2476 Company:: B0PC0, LP Box 301 State: NM Zip 8260 Attn::: Tory Savoie Tory Savoie PIU #295 Flow Line Fax #: (575) 395-1429 Fax #: (575) 395-1429 Project Owner:: Tory Savoie Tory Savoie PIU #295 Flow Line Fax #: (575) 395-1429 Address:: Company:: B0PC0, LP Joel Lowry Fax #: (575) 395-1429 Address:: Fax #: (575) 395-1429 Address:: Fax #: (575) 395-1429	Project Owner: State: NM Zip: 88260 Attn: Tony B0PCO. LP Fax #: (575)396-1422 Address: Fax #: (575)396-1422 Kim Kim (575)396-142 Kim (575)396-142 Kim (575)396-142 (575)396-142 (575)396-142 Kim (575)36-142 (575)36-142 (575)37 (575)37 (575)37<	Project Owner: State: NM Zip: 88260 Attn: Tony Savoie Project Owner:
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November 14, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/12/14 13:40.

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

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #1 @ 3" (H403480-01)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 61-154	!						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	11/13/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	169	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	32.2	10.0	11/13/2014	ND					
Surrogate: 1-Chlorooctane	107 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	129 9	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #1 @ 1' (H403480-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	11/13/2014	ND	400	100	400	3.92	

Sample ID: ROAD #2 @ 3" (H403480-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/13/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					
Surrogate: 1-Chlorooctane	103	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	117 9	% 52.1-17	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #3 @ 3" (H403480-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/13/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					
Surrogate: 1-Chlorooctane	102	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	116	% 52.1-17	6						

Sample ID: ROAD #4 @ 3" (H403480-05)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/13/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					
Surrogate: 1-Chlorooctane	106	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	119 9	52.1-17	6						

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*=Accredited Analyte

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Celeg D. Keine



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #5 @ 3" (H403480-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/13/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					
Surrogate: 1-Chlorooctane	110	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	124	% 52.1-17	6						

Sample ID: ROAD #6 @ 3" (H403480-07)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/13/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					
Surrogate: 1-Chlorooctane	112 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	126	% 52.1-17	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #6 @ 1' (H403480-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	11/13/2014	ND	400	100	400	3.92	

Sample ID: ROAD #6 @ 3' (H403480-09)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: ROAD #6 @ 5' (H403480-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: ROAD #6 @ 7' (H403480-11)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: ROAD #6 @ 9' (H403480-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/13/2014	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #6 @ 11' (H403480-13)

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	11/13/2014	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

RDINAL LABORATORIES

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

Company Name:									B	ILL TO						ANA	LYSIS		OUE	TZ	 	
Project Manager: Joel Lowry							P.0	D. #:	and the second			-		T	T				T		1	T
Address: P.O. Box 301							Co	mpa	nv.	BO	PCO, LP	1										
City: Lovington State: NM	Zip	o: 8	826	0			Att	-	iny.													
Phone #: (575)396-2378 Fax #: (575)										Tony Sa	VOIE	-										
Project #: Project Own		120						dres	S:			1										
Project Name: PLU #295 Flow Line	CI .						Cit								TPH							
Project Location: Eddy Co., NM							Sta	te:	NM	Zip:		e e	TPH (8015M)	BTEX (8021B)	E							
							Ph	one	#:			Chloride	801	8	FOR							
Sampler Name: Joel Lowry							Fax	(# :				ਤ	H	ТЩ Ц								
FOR LAB USE ONLY				M	ATR	X		PRE	SERV	. SAMPI	LING		₽	BT	НОГВ							
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME											
Of Road #1 @ 3"	g	1		>					x	11/11/14	1205	x	x	x								-
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O3 Road #2 @ 3"	g	1		x	<			3	x	11/11/14	1215	x	x									-
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Dood #C @ 21	ľ			-	-	-		- '				^										
29 Road #6 @ 3'	g	11		X				3	X	11/11/14	1250	x										

NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the PLEA analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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 servi

Relinquished By:	Date: Received		on any of the above stated reason		-			
	147-14	Dy.		Phone Result:	Yes	□ No	Add'l Phone #:	
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	Time 5:30	(Dach	um	REMARKS:				
Relinquished By:	Date:// A Received	By						
A Phile O	Time:	11,00	in P	Disease			ghest TPH for BTEX	
DRISman	7-1-1	rM XI	NU	Flease en	all result	ts to pm(@basinenv.com,	
Delivered By: (Circle One)	1:40	Sample Condition	CHECKED BY:	TASavole	@BassP	et.com, a	acruth@basspet.com	
Sampler - UPS - Bus - Other:	-3.40	Cool Intact	(Initials)					
	510	No No	UP II					

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

(575) 393-232	6 FAX (575) 39	3-2476

Company Name:						-												_						
Project Manager: Joel Lowry								Þ	0. ‡	Constant Section 1	24	ILL TO						AN	ALYSI	SR	EQUE	ST		
Address: P.O. Box 301								F			-			-		4								
City: Lovington	State: NM	Zi	n:	8826	0				-	oany:		BOP	PCO, LP											
Phone #: (575)396-2378	Fax #: (575)								tn:			Tony Sav	voie											
Project #:	Project Own		1423	,				Ad	ldre	SS:														
Project Name: PLU #295 Flow		er.						Cit	ty:								1 1							
Project Location: Eddy Co., N								Sta	ate:	NN	Λ	Zip:		e	5M)	2B	TPH							
Sampler Name: Joel Lowry	ivi							Ph	one	e #:				Chloride	TPH (8015M)	BTEX (8021B)	FOR							
FOR LAB USE ONLY		-	-	_				Fa	x #:		_			ਲ	H	Ш	a l							
		l			M	ATRI	X	-	PRI	ESER	V.	SAMPL	ING	1	₽	BT	НОГР							
Lab I.D. Sam	ple I.D.	G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER	NASTEWATER		E		BASE:	OOL														
1403480-		(G)RA	# CON	GROU	WAST SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL		DATE	TIME											
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	d # 6 @ 9'	g	1		x					x	T	11/11/14	1320	x				-		_			\rightarrow	-+
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EASE NOTE: Liability and Damages. Cardinal's liability a alyses. All claims including those for negligence and any or vice. In no event shall Cardinal be liable for incidental or or liates or successors arising out of any total of the liable for the liable of the l																								
vice. In no event shall Cardinal be liable for incidental or o liates or successors arising out of or related to the perform elinquished By:	ance of services hereunder by Cardin	nal_rega	ardless	of whet	her such	claim	loss of a	use, or d upor	r loss o n any o	of profits of the ab	incu ove	urred by client, its stated reasons o	s subsidiaries,											
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#5

FORM-006 Revision 1.0



November 14, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/12/14 13:40.

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

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: MIDDLE @ 1' (H403482-01)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.100	0.100	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.100	0.100	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	0.328	0.100	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	2.62	0.300	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	2.95	0.600	11/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	11/13/2014	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	270	50.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	3150	50.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	507	50.0	11/13/2014	ND					
Surrogate: 1-Chlorooctane	148 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	175 9	52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/12/2014	Sampling Date:	11/11/2014
Reported:	11/14/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: MIDDLE @ 4' (H403482-02)

Chloride, SM4500Cl-B	i-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: MIDDLE @ 5' (H403482-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/13/2014	ND	400	100	400	7.69	

Sample ID: END @ 1' (H403482-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2014	ND	400	100	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

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01 East Marland, Hob	
TORIES	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 0+1

Reli Relinquished By analyses. All claims including those for negligence and any other PLEASE NOTE: Liability and Dar Delivered By: (Circle One) HYO3492 City: Project Manager: Sampler Name: Project Location: Project Name: Project #: Phone #: Company Name: Address: vice. In no event shall Cardinal be liable for FOR LAB USE ONLY Lab I.D. quist 2 Lovington 20230 P.O. Box 301 (575)396-2378 Joel Lowry PLU #295 Flow Line nages. (575) 393-2326 FAX (575) 393-2476 Eddy Co., NM Joel Lowry Cardinal's liability and client's Sample I.D. Middle @ 1' Middle @ 4' Middle @ 5' End @ 1' Date: 12-14 Date;-//-/2-/4 Time: 7:30 11me; 40 ices hereunder by C Project Owner: Fax #: (575)396-1429 damages, including State: iver shall be remedy for any NM deemed waived 9 9 Zip: 88260 Received By: g 9 (G)RAB OR (C)OMP Received By: _ -# CONTAINERS inless made in writing and received by Cardinal within 30 days after t whether GROUNDWATER WASTEWATER × × ×× SOIL MATRIX contract or tort, shall be a OIL ns, loss of use, or loss of profits incurred by client, its subsidiaries, SLUDGE lern OTHER Fax #: Phone #: State: NM City: Attn: P.O. #: Address: Company: ACID/BASE PRESERV. ICE / COOL × × × × OTHER BILL TO Zip: 11/11/14 11/11/14 11/11/14 11/11/14 DATE SAMPLING Tony Savoie paid by the client for the BOPCO, LP Phone Result: Fax Result: REMARKS: pletion of the applicable 1130 1120 1125 1115 TIME Please email results to pm@basinenv.com, TASavoie@BassPet.com, acruth@basspet.com × × × × Chloride] Yes × TPH (8015M) **Run Highest TPH for BTEX** × **BTEX (8021B)** No HOLD FOR TPH Add'l Phone #: Add'l Fax #: ANALYSIS REQUEST

Revision 1.0 FORM-006 Sampler - UPS - Bus - Other:

3.40

Cool Intact

e Condition

CHECKED BY:

(Initials)

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

#32



November 18, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/14/14 10:40.

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

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/14/2014	Sampling Date:	11/13/2014
Reported:	11/18/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #1 @ 3' (H403513-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/17/2014	ND	400	100	400	3.92	

Sample ID: ROAD #1 @ 5' (H403513-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/17/2014	ND	400	100	400	3.92	

Sample ID: ROAD #1 @ 7' (H403513-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/17/2014	ND	400	100	400	3.92	

Sample ID: ROAD #1 @ 9' (H403513-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/17/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/14/2014	Sampling Date:	11/13/2014
Reported:	11/18/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #1 @ 11' (H403513-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	11/17/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine



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

Received:	11/14/2014	Sampling Date:	11/13/2014
Reported:	11/18/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: ROAD #1 @ 13' (H403513-06)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2014	ND	1.83	91.4	2.00	8.21	
Toluene*	<0.050	0.050	11/18/2014	ND	1.76	88.2	2.00	6.70	
Ethylbenzene*	<0.050	0.050	11/18/2014	ND	1.75	87.4	2.00	6.66	
Total Xylenes*	<0.150	0.150	11/18/2014	ND	5.27	87.9	6.00	6.78	
Total BTEX	<0.300	0.300	11/18/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 61-154							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/14/2014	ND	212	106	200	1.79	
DRO >C10-C28	<10.0	10.0	11/14/2014	ND	213	107	200	1.12	
EXT DRO >C28-C35	<10.0	10.0	11/14/2014	ND					
Surrogate: 1-Chlorooctane	102	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99.9	% 52.1-17	6						

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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 whatscever 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, whot limitation, business interruptions, loss of gronts incurred by client, its subsidiaries, affiliates or successor 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/14/2014	Sampling Date:	11/13/2014
Reported:	11/18/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: RP @ 11' (H403513-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/17/2014	ND	400	100	400	3.92	

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Celeg D. Keine



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:								_				BILL TO	0						ANA	-YSIS	RE	ANALYSIS REQUEST	ST	
Project Manager:	Joel Lowry								P.O. #:	#												-	1	_
Address: P.O. Box 301	x 301							-	Con	Company:	ny:		BOPCO,	5								_		
City: Lovington	State: NM	NM Zip:		88260	8			-	Attn:			Tony	Tony Savoie								1			
Phone #: (575)396-2378	Fax #:	(575)396-1429	429					-	Add	Address:	ŝ													-
Project #:	Project Owner:	Owner:						-	City:)	н						
Project Name: PL	PLU #295 Flow Line							10	State:		MN	Zip:			e	5M)	21B)	TP				_		
Project Location:	Eddy Co., NM							-	ho	Phone #:	75				orid	801	(802	OR						
Sampler Name: Joe	Joel Lowry							_	Fax #:	*					Chl	PH (EX	.D F						
FOR LAB USE ONLY		_	-			MATRIX	R		-	R	PRESERV.		SAMPLING	.,	(TP	BTI	IOL						
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7	RP @ 11'	ę	-			×					×	11/13/14	/14	1450	×									
analyses. All claims including those for ne service. In no event shall Cardinal be liable affiliates or successors arising out of or re	analyses. All claims including those for negligence and any other cause whatsoever versory or universe versory network and are arranged by detained within 30 detained in the replicable approach. The applicable approach is the complexity of the applicable of the applicable applicable approach are arranged and an arranged and arranged arrang	all be deemed w luding without lin	aived u nitation	inless i , busir	made i ness in	in writin terrupi	ing and ions, k	receiv pss of u	ed by	Cardin r loss c	al with of profit	in 30 days aft is incurred by	days after completion of the drage after completion of the irred by client, its subsidiarie etated reasons of otherwise	ubsidiaries,	cable									
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-1.20 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 #54

FORM-006 Revision 1.0



December 02, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/24/14 14:20.

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 accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/24/2014	Sampling Date:	11/21/2014
Reported:	12/02/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: ESW #2 (H403614-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/25/2014	ND	400	100	400	0.00	

Sample ID: WSW #2 (H403614-02)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/25/2014	ND	400	100	400	0.00	

Sample ID: FLOOR #2 (H403614-03)

BTEX 8021B	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2014	ND	1.60	80.0	2.00	13.3	
Toluene*	<0.050	0.050	12/01/2014	ND	1.61	80.7	2.00	12.3	
Ethylbenzene*	<0.050	0.050	12/01/2014	ND	1.58	79.0	2.00	13.8	
Total Xylenes*	<0.150	0.150	12/01/2014	ND	4.75	79.2	6.00	14.1	
Total BTEX	<0.300	0.300	12/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 61-154							
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/25/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/24/2014	Sampling Date:	11/21/2014
Reported:	12/02/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: FLOOR #2 (H403614-03)

TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/26/2014	ND	197	98.5	200	2.78	
DRO >C10-C28	<10.0	10.0	11/26/2014	ND	208	104	200	0.274	
EXT DRO >C28-C35	<10.0	10.0	11/26/2014	ND					
Surrogate: 1-Chlorooctane	125	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	138	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

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

Company Name:									8	BILL TO						ANA	ANALYSIS REQUEST	SR	E	EST			
Project Manager:	Joel Lowry					б.	P.O. #:	#										\neg	-	_			
Address: P.O. Box 301	x 301					0	Company:	ban	ž.	BOPCO, LP	0, LP												
City: Lovington	State: NM	Zip:		88260		A	Attn:			Tony Savoie	Ð.												
Phone #: (575)396-2378	6-2378 Fax #: (575)396-1429	96-1	429			A	Address:	SSS															
Project #:	Project Owner:	ä				<u>Ω</u>	City:)	н					-			
Project Name: PL	PLU #295 Flow Line					St	State:		MM	Zip:		е	5M)	21B	TP					-			
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FOR LAB USE ONLY				MATRIX	RX	11	꾸	Ĩ	PRESERV.	SAMPLING	G		ТР	вт	HOL								
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PLEASE NOTE: Liability and Damages. Cardinal's liability ar nanàyees. Al claims including those for negligence and any o service. In no event shall Cardinal be liable for incidental or co service in no event shall Cardinal be liable for incidental or affiliates or auccessors antiding out of or related to the perform	PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the miniplee. All claims including those for nogleance and any other cause whitsoever shall be demoted valued unsess made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incident of consequential diamages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaliaries, and any other shall be liable for incident or consequential diamages. Including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaliaries, and the second strating out of or related to the performance of services hereunder by Cardinal, regardees of whether such claim is based upon any of the above stated reasons or otherwise.	claim an imed wa thout lim final, reç	ising v lived u litation	whether based in con inless made in writing , business interruptic ss of whether such cl	and rec and rec aim is ba	ort, shi eived of use	all be by Ca or lo	limite rdina ss of ny of	d to the I within : profits in the abo	amount paid by the 30 days after comp nourred by client, its ve stated reasons of	e client for the pletion of the applic ts subsidiaries, or otherwise.	able						ľ	ŀ				L
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Maladeum

-4.60

Cool Intact Sample Condition

CHECKED BY:

H24

Revision 1.0 FORM-006

Page 5 of 5



December 09, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 12/08/14 10:45.

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 accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/08/2014	Sampling Date:	12/05/2014
Reported:	12/09/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: NSW #1 (H403729-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	12/08/2014	ND	432	108	400	0.00	

Sample ID: WSW #1 (H403729-02)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	12/08/2014	ND	432	108	400	0.00	

Sample ID: ESW #3 (H403729-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/08/2014	ND	416	104	400	3.92	

Sample ID: SSW #3 (H403729-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/08/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/08/2014	Sampling Date:	12/05/2014
Reported:	12/09/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: WSW #3 (H403729-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/08/2014	ND	416	104	400	3.92	

Sample ID: RP @ 13' (H403729-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/08/2014	ND	416	104	400	3.92	

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Celeg D. Keine



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

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FORM-006 Revision 1.0



December 29, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU #295 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 12/19/14 11:15.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/19/2014	Sampling Date:	12/17/2014
Reported:	12/29/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: ESW #1 (H403888-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/22/2014	ND	400	100	400	0.00	

Sample ID: WSW #1B (H403888-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/22/2014	ND	400	100	400	0.00	

Sample ID: FLOOR #1 (IN-SITU) (H403888-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2014	ND	1.87	93.4	2.00	4.37	
Toluene*	<0.050	0.050	12/23/2014	ND	1.85	92.3	2.00	4.87	
Ethylbenzene*	<0.050	0.050	12/23/2014	ND	1.68	83.9	2.00	8.18	
Total Xylenes*	<0.150	0.150	12/23/2014	ND	4.99	83.1	6.00	9.33	
Total BTEX	<0.300	0.300	12/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	12/22/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/19/2014	Sampling Date:	12/17/2014
Reported:	12/29/2014	Sampling Type:	Soil
Project Name:	PLU #295 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		

Sample ID: FLOOR #1 (IN-SITU) (H403888-03)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2014	ND	201	100	200	4.10	
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	195	97.4	200	1.72	
EXT DRO >C28-C35	<10.0	10.0	12/22/2014	ND					
Surrogate: 1-Chlorooctane	89.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	100 %	52.1-17	6						

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