Basin Environmental Service Technologies, LLC

3100 Plains Highway P. O. Box 301 Lovington, New Mexico 88260 jwlowry@basinenv.com Office: (575) 396-2378 Fax: (575) 396-1429

ćů **Effective Solutions** 

# **REMEDIATION SUMMARY**

# AND RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP POKER LAKE UNIT #183 FLOW LINE Eddy County, New Mexico Unit Letter "O" (SW/SE), Section 6, Township 24 South, Range 30 East Latitude 32.240774° North, Longitude 103.918504° West NMOCD Reference #2RP-\_\_\_\_

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

RE APR 01 2014 COD ARTESIA

March 2014

Joel owrv Project Manager

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# **1.0 INTRODUCTION & BACKGROUND INFORMATION**

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as Poker Lake Unit (PLU) #183 Flow Line. The legal description of the release site is Unit Letter "O" (SW/SE), Section 6, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.240774° North latitude and 103 918504° 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 September 2, 2012, BOPCO discovered a release had occurred on the PLU #183 flow line. The release was attributed to external corrosion. The "Release Notification and Corrective Action" (Form C-141) indicated approximately three barrels (3 bbls) of crude oil and five barrels (5 bbls) of produced water were released, affecting approximately two hundred square feet (200 ft<sup>2</sup>) of lease road. During initial response activities, approximately three barrels (3 bbls) of fluid was recovered and the saturated soil was removed from the road way and placed on a nearby well pad before being transported to an NMOCD-approved disposal facility. The affected soction of pipeline has since been replaced. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

# 2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was un available for Section 6, Township 24 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and seventy-five feet (175') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

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

NMOCD guidelines indicate the PLU #183 Flow Line release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/Kg (ppm)
- BTEX 50 mg/Kg (ppm)
- TPH 5,000 mg/Kg (ppm)

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

## 3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On February 20, 2014, Basin began excavating impacted soil at the release site. The floor and sidewalls of the excavation were advanced until field tests suggested concentrations of benzene, toluene, ethylbenzene and xylene (BTEX), total petroleum hydrocarbons (TPH) and chloride were less than NMOCD Regulatory Standards. Excavated material was stockpiled on-site, pending final disposition.

On February 20, 2014, five (5) soil samples (SP #1 @ 2', SP #2 @ 2', ESW #1, SSW #1 and NSW #1) were collected from the release site and submitted to Cardinal Laboratories of Holbs, New Mexico, for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 2,480 ppm for soil sample SP#1 @ 2' to 256 ppm SP#2 @ 2'. Soil sample SP #2 @ 2' was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory method detection limit (MDL). The excavation was advanced in the areas represented by soil samples SP 1 @ 2' and SSW #1. A summary of "Concentrations of Benzene, BTEX, TPH and Chloride in Soil" is provided in Table 1. A "Site and Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

On February 26, 2014, a test trench (TT-1) was advanced in the floor of the excavation at approximately five feet (5') bgs. During the advancement of the test trench, five (5) soil samples (TT-1 @ 5', TT-1 @ 9', TT-1 @ 15', TT-1 @ 17' and TT-1 @ 18') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 7,120 ppm for soil sample TT-1 @ 9' to 432 ppm for soil sample TT-1 @ 17'. Soil samples TT-1 @ 5' and TT-1 @ 18' were also analyzed for concentrations of TPH. Laboratory analytical results indicated soil samples TT-1 @ 5' and TT-1 @ 18' were determined for Concentrations of 12.0 and less than the laboratory MDL, respectively. Soil sample TT-1 @ 5' was also analyzed for concentrations of BTEX, which were determined to be less than the laboratory MDL. Based on laboratory analytical results from the collected soil samples, it was determined that vertical delineation had been achieved.

In addition, two (2) confirmation soil samples (WSW (In-Situ) and SSW #1b) were collected from the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated concentrations ranged from 1,220 ppm for soil sample WSW (In-Situ) to 624 ppm for soil sample SSW #1b. Further excavation to the west was limited due to the presence of a heavily used oilfield access road.

On February 27, 2014, approximately sixty cubic yards (60 yd<sup>3</sup>) of impacted material was excavated and transported to Lea Land, LLC (NMOCD Permit #WM-01-035) for disposal.

On February 28, 2014, on receiving NMOCD approval, the excavation was backfilled with locally purchased, non-impacted material. At the request of the NMOCD, a one-foot (1') layer of compacted caliche was installed in the floor of the excavation at approximately five feet (5') bgs.

Prior to backfilling, the final dimensions of the excavation were approximately twelve feet (12') in width, thirty-two feet (32') in length and five feet (5') 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® (letergent 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 #183 Flow Line release site met the objectives set forth by the NMOCD. Further excavation was limited due to the presence of a widely used oil field access road and numerous active pipelines. Basin recommends BOPCO provide the NMOCD Artesia District Office and BML a copy of this *Remediation Summary and Risk-Based Site Closure Request* and request the NMOCD grant site closure to the PLU #183 Flow Line release site.

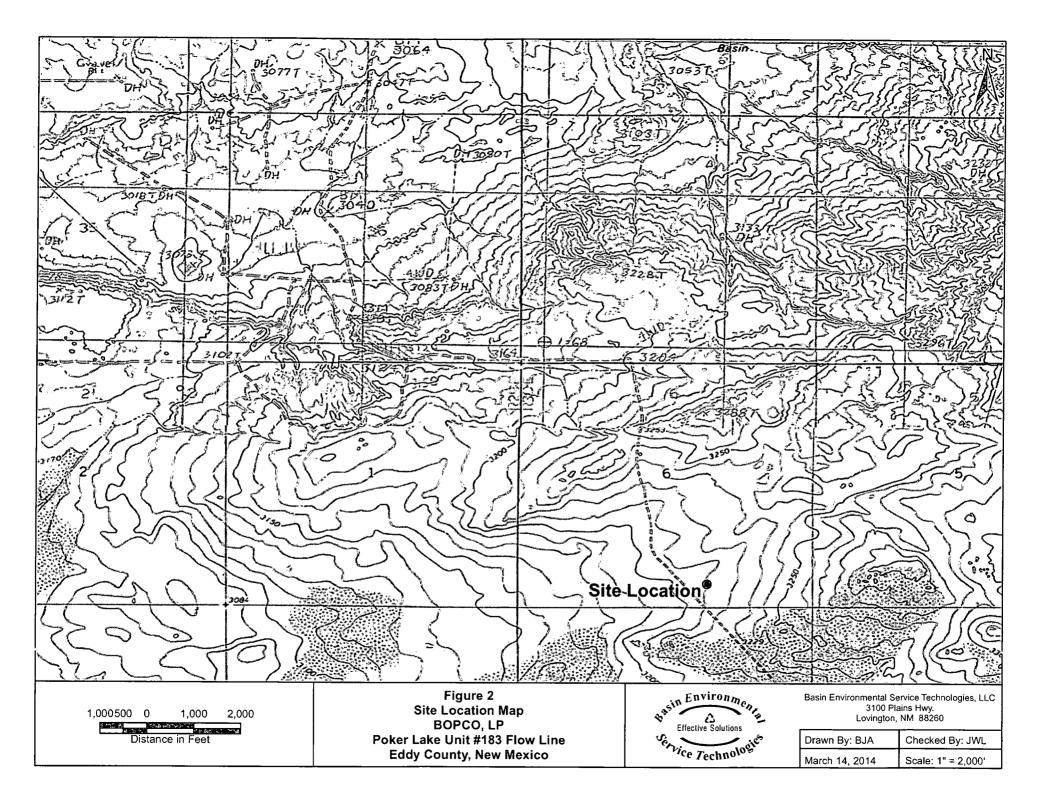
# 6.0 LIMITATIONS

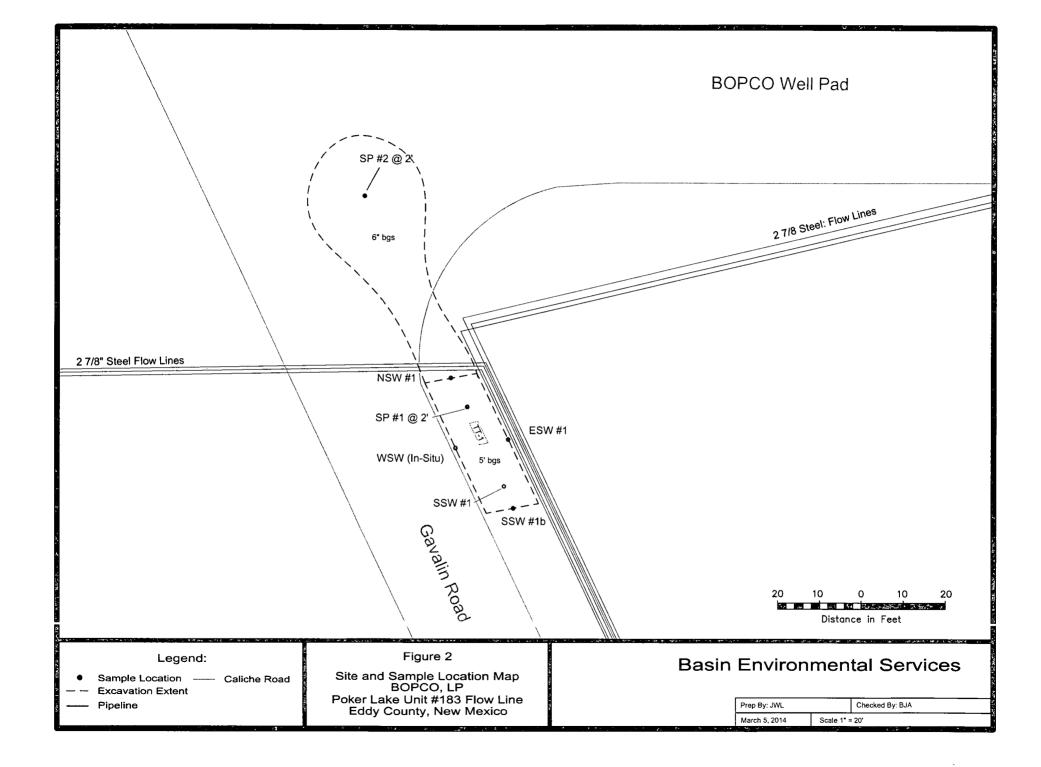
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements 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 wi hout the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LF.

# 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 & CHLORIDES IN SOIL

### BOPCO, LP PLU #183 FLOWLINE EDDY COUNTY, NEW MEXICO

					METHOD: E	PA SW 846	-8021B, 503	0	METHOD: 8015M			TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)		TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
SP #1 @ 2'	2'	2/20/2014	Excavated	-	-	-	-	-	-	-	-	-	2,480
SP #2 @ 2'	2'	2/20/2014	In-Situ	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
ESW #1	3'	2/20/2014	In-Situ	-	-	-	-	-	-		-	-	336
SSW #1	3'	2/20/2014	Excavated	-	-	-	-	-	-	-	-	-	1,150
NSW #1	3'	2/20/2014	In-Situ	-	-	-		-		-	-	-	1,070
TT-1 @ 5'	5'	2/26/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	12.0	12.0	4,000
TT-1 @ 9'	9'	2/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	7,120
TT-1 @ 15'	15'	2/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,540
TT-1 @ 17'	17'	2/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	432
TT-1 @ 18'	18'	2/26/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	688
WSW (In-Situ)	3'	2/26/2014	In-Situ	-	-		-	-	_	-	-	-	1,220
SSW #1b	3'	2/26/2014	In-Situ	-	-	-	-	-	-	-	-	-	624
NMOCD Criteria				10				50				5,000	1,000

.

- = Not analyzed.

Dil Conservation Division

1220 South St. Francis Dr. Santa Fé, NM 87505

-141 Form Revised August 8, 2011

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

# **Release Notification and Corrective Action**

	OPERATOR	Initial Report	Final Report
Name of Company: BOPCO, L.P.	Contact: Tony Savoie		
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329		
Facility Name: PLU-183 Flow line spill location is 1700 ft. N.W. of the well location on Rawhide Road	Facility Type: Exploration and	Production	

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-33224

# LOCATION OF RELEASE

Unit Letter O	Section 6	Township 24S	Range 30 E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
						]		<u> </u>

Latitude N 32.240774 Longitude W 103.918504

Type of Release: Produced water and crude oil	Volume of Release: 3 bbls crude oil and 5 bbls. produced water					
Source of Release: 2 7/8 inch flow line	Date and Hour of Occurrence:	Date and Hour of Discovery:				
	9/2/12 time unknown	9/2/12 8:00 a				
Was Immediate Notice Given?		772/12 0.00 0				
	If YES, To Whom?					
🗋 Yes 🔲 No 🖾 Not Required						
By Whom?	Date and Hour:		+ RECEIVED			
( a Watercourse Reached?	If YES, Volume Impacting the Wat	ercourse.				
🗌 Yes 🛛 No			SEP 0.6 2012			
If a Watercourse was Impacted, Describe Fully.*	_ <b>I</b>					
			NMOCD ARTESIA			
Describe Cause of Problem and Remedial Action Taken.*						
The 2 7/8 inch flow developed a leak due to external corrosion. A tempor	ary leak clamp was installed on the pi	be.				
		F · -				
Describe Area Affected and Cleanup Action Taken.*						
The spill occurred in the lease road, approximately 200 sq.ft. was affected	by the release and response activities	The saturated	soil was removed from the			
road way and placed on a nearby well pad. Clean caliche was used to cov	or the area for traffic use. The shill wi	l be remediated	d in accordance to the			
NMOCD recommended guidelines for spills.	of the area for frame use. The spin wi		I maccordance to the			
AMOOD recommended galderines for spins.						
		1 41 44				
I hereby certify that the information given above is true and complete to t						
regulations all operators are required to report and/or file certain release n	iotifications and perform corrective ac	tions for releas	es which may endanger			
public health or the environment. The acceptance of a C-141 report by th	e NMOCD marked as "Final Report"	does not reliev	e the operator of liability			
should their operations have failed to adequately investigate and remediat	te contamination that pose a threat to g	ground water, s	urface water, human health			
or the environment. In addition, NMOCD acceptance of a C-141 report d	loes not relieve the operator of respon-	sibility for com	pliance with any other			
federal, state, or local laws and/or regulations.						
	OIL CONSERVATION DIVISION					
		11110110				
Signature: i an Sauce						
	Annanced by Productmental Constal					
Printed Name: Tony Savoie	Approved by Environmental Specialist:					
	I					
Title: Waste Management and Remediation Specialist	Approval Data:	Evaluation Do	to			
rine. wasie management and Kemeulation Specialist	Approval Date:	Expiration Da				
E-mail Address: tasavoie@basspet.com	Conditions of Approval:					
C-man Audress, tasavore@uassper.com	Conditions of Approval:					
			—			
.:9/5/12 Phone: 432-556-8730						

\* Attach Additional Sheets If Necessary

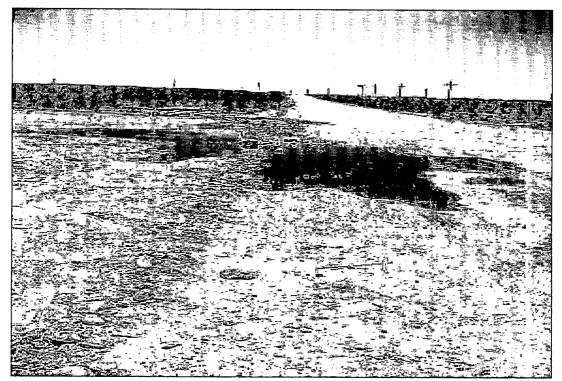
NATURE OF RELEASE

State of New Mexico **Energy Minerals and Natural Resources** 

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

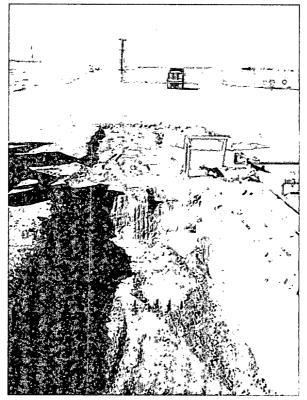
1220 S. St. Fra	incis Dr., Sant	a Fe, NM 8/50	3	Sa	anta F	Fe, NM 875	505					
			Rel	ease Notifi	catio	on and Co	orrective A	ction	)			
OPERATOR Initial Report										M	Final Repor	
Name of Company: BOPCO, L.P.						Contact: Tony Savoie						
				bad, N.M. 8822	0		No. 575-887-73	29				
				cation is 1700 ft	•	Facility Typ	be: Exploration	and Pro	oduction			
N.W. of the	e well locat	tion on Rawl	hide Roa	d (2RP-1296)								
Surface Ov	vner: Feder	al		Mineral C	)wner:	Federal			API No	. 30-015-3	3224	
<u> </u>						N OF RE	EFASE					
Unit Le	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/V	West Line	County	<i>.</i>	
0	6	24S	30E		}							
L		L	I	Latitude N 32.	24077	4 Longitur	le W 103 91850	)4		L		
						- <b>-</b>		<u>/ 1</u>				
Type .	Produc	ed water and	crude oil	INAI	UKE	Volume of	Release: 3 bbls c	rude	Volume F	Recovered: 3	hhls to	tal fluid
Typev	(100000	eu water anu	cruae on				bls produced wat		v orunic r	Contra.	) 0015 u	nai nuid
Source of Re	elease: 2 7/8	" flow line					lour of Occurrence	e:		Hour of Dis	covery:	9/2/12 at
Was Immedi	ioto Notiza (	livan?				9/2/12 time If YES, To		ł	8:00 a.m.			
was minicul			Yes	] No 🖾 Not Re	equired		whom:					
By Whom?						Date and H	our					
Was a Water	rcourse Reac	hed?		<i>j</i>			lume Impacting t	the Wate	rcourse.		,,	
			Yes 🛛	No ·					Г	REC	=IVI	ED
If a Watercou	urse was Imp	pacted, Descri	be Fully.*	······································						• • • • • •		
Describe Cau	use of Proble	m and Remed	tial Action	Takan *						APR_	12	114
				external corrosio	n. A te	mporary leak o	lamp was installe	ed on the	e pipe.		ADT	TOIA
						······				MOCD	Ani	
		nd Cleanup A		en.* ely 200 sq. ft. was	affect	ed by the relar	ica and response (	otivitios	The cotur	ated coil we	-	und from the
				eny 200 sq. n. was ean caliche was u								
NMOCD rec								<b>-</b>				
Confirmation	soil sample	s collected fro	m the flo	or and sidewalls o	f tha D	11 #192	untion ware analy	and he a	- NMOCT	) on manual 1	aharata	m which
				hloride were less i								
exception of s	soil sample \	WSW (In-Situ	i), which e	xhibited a chlorid	le conc	entration of 1,	220 ppm. Further	excavat	ion to the v	vest was lim	ited du	e to the
				The final dimension excavated and trans								
				emediation Sumn								
					-							
				is true and comple d/or file certain re								
				e of a C-141 repor								
should their of	perations ha	ve failed to ac	lequately	investigate and rea	mediate	e contaminatio	n that pose a thre	at to gro	und water,	surface wat	er, hum	an health
or the environ	ment. In ad	dition, NMO	CD accept	ance of a C-141 re	eport de	oes not relieve	the operator of re	esponsib	ility for co	mpliance wi	th any o	other
federal, state,	or local laws	s and/or regul	ations.								N.T.	
		~					OIL CONS	DCKVF	ALION I	<u>7171510</u>	<u>IN</u>	
Signature:	1 Quy ?	Danie										
Printed Name:	: Tony Savoi	ie			1	Approved by E	invironmental Spo	ecialist:				
				1. 4								
Title: Waste N	anagement	and Remedia	tion Speci	anst		Approval Date		Ex	piration D	ate:		
E-mail Addres	ss: tasavoie@	basspet.com			(	Conditions of A	Approval:			Attached		
Date: 4/1	/14		Phone: 4	32-556-8730								



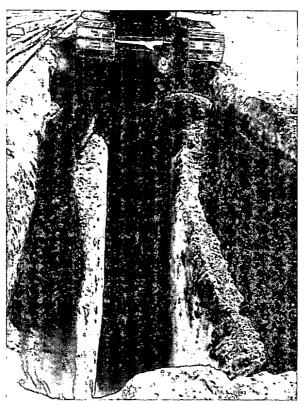
Photograph of the initial release at the PLU #183 Flow Line Release Site.



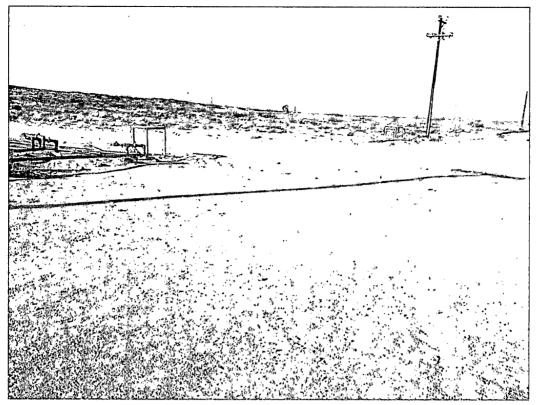
Photograph of excavation activities at the PLU #183 Flow Line Release Site.



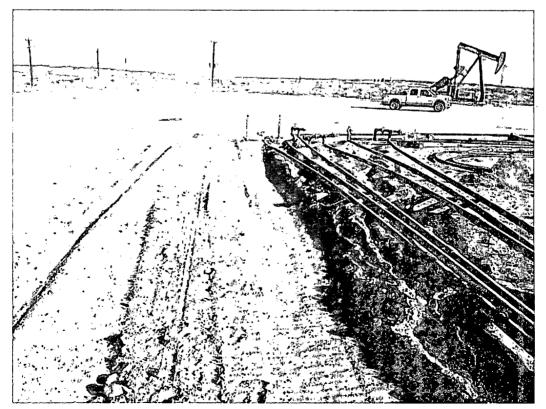
Photograph of excavation activities at the PLU #183 Flow Line Release Site.



Photograph of the advancement of the delineation trench at the PLU #183 Flow Line Release Site.



Photograph of PLU #183 Flow Line Release after remediation activities.



Photograph of PLU #183 Flow Line Release after remediation activities.



March 03, 2014

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

RE: PLU #183 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/14 9:55.

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

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:	02/21/2014	Sampling Date:	02/20/ 2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	PLU #183 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

### Sample ID: SP #1 @ 2' (H400531-01)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	02/27/2014	ND	416	104	400	3.92	

### Sample ID: SP #2 @ 2' (H400531-02)

mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	02/28/2014	ND	2,58	129	2.00	4.12	
<0.050	0.050	02/28/2014	ND	2.55	127	2.00	0.671	
<0.050	0.050	02/28/2014	ND	2.37	118	2.00	0.456	
<0.150	0.150	02/28/2014	ND	7.21	120	6.00	1.13	
<0.300	0.300	02/28/2014	ND					
96.5	% 61.3-14	2						
105	% 71.3-12	9						
103	% 65.7-14	1						
mg,	/kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
256	16.0	02/27/2014	ND	416	104	400	3.92	
mg,	/kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/26/2014	ND	207	104	200	0.745	
<10.0	10.0	02/26/2014	ND	204	102	200	0.160	
<10.0	10.0	02/26/2014	ND					
	Result <0.050 <0.050 <0.150 <0.300 96.5 105 103 Result <b>256</b> mg, Result <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 96.5 % 61.3-14 105 % 71.3-12 103 % 65.7-14 mg/kg Result Reporting Limit 256 16.0 mg/kg Result Reporting Limit <10.0 10.0	Result         Reporting Limit         Analyzed           <0.050	Result         Reporting Limit         Analyzed         Method Blank           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

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Celey D. Kune

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:	02/21/2014	Sampling Date:	02/20/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	PLU #183 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

### Sample ID: SP #2 @ 2' (H400531-02)

TPH 8015M	mg/	'kg	Analyz	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane	91.4	% 65.2-140							
Surrogate: 1-Chlorooctadecane	98.5	63.6-154							

### Sample ID: ESW #1 (H400531-03)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/27/2014	ND	416	104	400	3.92	

### Sample ID: SSW #1 (H400531-04)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	02/27/2014	ND	416	104	400	3.92	

#### Sample ID: NSW #1 (H400531-05)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	02/27/2014	ND	416	104	400	3.92	

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### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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 Li Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 5 of !

**ARDINAL LABORATORIES** 

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	BILL TO			REQUEST		Paç
Company Name: Basin Environmental Service Technologies, LLC Project Manager: Joel Lowry	P.O. #:					
Project Manager: Joel Lowry Address: P.O. Box 301						na na serie de la composición de la compo
City: Lovington State: NM Zip: 88260	Company: BOPCO, LP				·	
Phone #: (575)396-2378 Fax #: (575)396-1429	Attn: Tony Savoie					
Project #: Project Owner:	Address: 522 W. Marland City: Carlsbad					
Project Name: PLU #183 Flowline		<b>S</b>	<b>a</b>		· · · · · · · · · · · · · · · · · · ·	
Project Name. Flow room room room room room room room ro	State: NM Zip: 88220	o151				
Sampler Name: Joel Lowry	Phone #: (432)556-8730 Fax #:	Chloride TPH (8015M)	BIEX (80218)			
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING					
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Lab I.D. Sample I.D. Sample I.D.	ACIDIBASE ACIDIBASE OTHER: DITER:					
	B E E B ATE TIME					
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<b>A</b> SP#2 @ 2' G 1 X	X 2/20/14 320	X X	x		- · · ·	
<b>3</b> ESW #1 G 1 X	X 2/20/14 330	×	·			
G 1 X	X 2/20/14 340	X .				
5 NSW #1 G 1 X	X 2/20/14 350	X				
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March 07, 2014

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

RE: PLU #183 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 02/28/14 12:45.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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,

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:	02/28/2014	Sampling Date:	02/26/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	PLU #183 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

### Sample ID: TT-1 @ 5' (H400613-01)

BTEX 8260B	mg/kg		Analyzed By: MS				· ··· · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2014	ND	2.25	112	2.00	1.45	
Toluene*	<0.050	0.050	03/06/2014	ND	2.37	118	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/06/2014	ND	2.31	116	2.00	4.27	
Total Xylenes*	<0.150	0.150	03/06/2014	ND	7.07	118	6.00	4.91	
Total BTEX	<0.300	0.300	03/06/2014	ND					
Surrogate: Dibromofluoromethane	98.8	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	03/04/2014	ND	432	108	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
GRO C6-C10	<10.0	10.0	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	NÐ	192	96.1	200	9.24	
EXT DRO >C28-C35	12.0	10.0	03/04/2014	ND					
Surrogate: 1-Chlorooctane	81.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.3	% 63.6-15	4						

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Celeg D. Kune

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:	02/28/2014	Sampling Date:	02/26/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	PLU #183 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

### Sample ID: TT-1 @ 9' (H400613-02)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	03/04/2014	ND	432	108	400	0.00	

### Sample ID: TT-1 @ 15' (H400613-03)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	03/04/2014	ND	432	108	400	0.00	

#### Sample ID: TT-1 @ 17' (H400613-04)

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	03/05/2014	ND	416	104	400	0.00	

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Celey D. Kune

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:	02/28/2014	Sampling Date:	02/27/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	PLU #183 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi H∈nson
Project Location:	EDDY COUNTY, NM		

### Sample ID: TT-1 @ 18' (H400613-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/05/2014	ND	416	104	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
GRO C6-C10	<10.0	10.0	03/04/2014	ND	198	98.9	200	8.32	
DRO >C10-C28	<10.0	10.0	03/04/2014	ND	192	96.1	200	9.24	
EXT DRO >C28-C35	<10.0	10.0	03/04/2014	ND					
Surrogate: 1-Chlorooctane	90.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.5	% 63.6-15	4						

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Celeg D. Kune

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 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 $% \left( {{{\left( {{{\left( {{{\left( {{{c}}} \right)}} \right)}_{i}} \right)}_{i}}}} \right)$

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Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

DINAL LABORATORIES 01 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	D		1								144 1					-											
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	State: NM 6-2378 Fax #: (575)396 Project Owner: U #183 Flowline Eddy Co., NM el Lowry Sample I.D. TT-1 @ 5' TT-1 @ 9' S C TT-1 @ 9' TT-1 @ 15' TT-1 @ 1	State: NM       Zip:         6-2378       Fax #: (575)396-14         Project Owner:	State:         NM         Zip:         88           6-2378         Fax #:         (575)396-1429           Project Owner:	State: NM       Zip:       88260         6-2378       Fax #:       (575)396-1429         Project Owner:	State: NM       Zip:       88260         6-2378       Fax #: (575)396-1429         Project Owner:       U #183 Flowline         Eddy Co.; NM       Eddy Co.; NM         el Lowry       MAT         Sample I.D.       Summer Honores         TT-1 @ 5'       G 1         TT-1 @ 5'       G 1         TT-1 @ 15'       G 1         State:       Received By:         TT-1 @ 15'       F         B 1       J         TT-1 @ 15'       F         Eddy for duby       K         Mathematic consequencial duages for the seatholding without interruptions	State: NM       Zip:       88260         6-2378       Fax #: (575)396-1429         Project Owner:         U #183 Flowline         Eddy Co., NM         el Lowry         Sample I.D.         MATRIX         ON MATRIX         Sample I.D.         ON NUMERIC ON OUR OF THE OWNER         Sample I.D.         ON OUR OWNER         ON OUR OWNER         TT-1 @ 5'         G 1         X         TT-1 @ 15'         G 1	State: NM       Zip:       88260       A         6-2378       Fax #: (575)396-1429       A         Project Owner:       C         U #183 Flowline       S         Eddy Co., NM       P         el Lowry       MATRIX         Sample I.D.       MATRIX         W       W       W         TT-1 @ 5'       G       1       X         TT-1 @ 5'       G       1       X       P         TT-1 @ 5'       G       1       X       P         TT-1 @ 15'       G       1       X       P         TT-1 @15'       G       1       X       P         TT-1 @15'       G       1       X       P         TT-1 @15'       G       1       X       P         The I @15'       F       1       X       P         Trail @15'       F       1       X       P	State: NM       Zip:       88260       Attn:         6-2378       Fax #: (575)396-1429       Addre         Project Owner:       City:         U #183 Flowline       State:         Eddy Co., NM       Phone         el Lowry       Fax #         Sample I.D.       WATRIX       Prove         WH HIM NAME       WH HIM NAME       Phone         Sample I.D.       WH HIM NAME       WH HIM NAME         TT-1 @ 5'       G       1       X         TT-1 @ 5'       G       1       X       Phone         TT-1 @ 5'       G       1       X       Phone         TT-1 @ 15'       G       1       X       Phoe         TT-1 @ 15'       G       1       X       Phoe         TT-1 @15'       G       1       X       Phoe         TT-1	State: NM       Zip:       88260       Attn:         6-2378       Fax #: (575)396-1429       Address:         Project Owner:       City:         U.#183 Flowline       State: N         Eddy Co:, NM       Phone #:         el Lowry       Fax #:         Sample I.D.       One of the second with the s	State: NM       Zip:       88260       Attn:         6-2378       Fax #:       (575)396-1429       Address:         Project: Owner:       City:         U.#183 Flowline       State: NM         Eddy Co., NM       Phone #:         el Lowry       Fax #:         Sample I.D.       State: NM         Will Will Work       PRESERV.         Will Will Work       PRESERV.         Sample I.D.       State: NM         Yes       State: NM         TT-1 @ 5'       G 1         TT-1 @ 9'       G 1         X       X         TT-1 @ 15'       G 1         X       X         TT-1 @ 16'       I	State:         NM         Zip:         88260         Attn:         Tony Save           6-2378         Fax #:         (575)396-1429         Address:         522 W. M           Project Owner:         City:         Cartsbac           U #183 Flowline         State:         NM         Zlp:           Eddy Co., NM         Phone #:         (432)556           el Lowry         Fax #:         MATRIX         PRESERV         SAMPLI           Sample I.D.         By By By Viet Wig By By Cold Cold By By By Cold Cold By:         DATE           TT-1 @ 15'         G         1         X         2/26/14           TT-1 @ 15'         G         1	State:         NM         Zip:         88260         Attn:         Tony Savole           6-2378         Fax #: (575)396-1429         Address:         522W. Martand           Project Owner:         City:         Cartsbad           U #183 Flowline         State:         NM         Zip:         88220           Eddy Co:: NM         Phone #:         (432)556-8730         Eddy Co:: NM         Phone #:         (432)556-8730           el Lowry         Fax #:         MATRIX         PRESERV         SAMPLING           Sample I.D.         (a)         (b)         (b)         (b)         (c)         (c)<	State:         NM         Zip:         88260         Attn::         Tony Service           6-2378         Fax #:         (575)396-1429         Address:         522.W.Marland           6-2378         Fax #:         (575)396-1429         Address:         522.W.Marland           U.#183 Flowline         State:         NM         Zip:         8622.0         90           Eddy Co., NM         Project Owner:         City:         Carisbad         90         90           el Lowry         Fax #:         (432)556-8730         90         90         90         90           Sample I.D.         00         8         80         10         X         X         226/14         100         ×           TT-1 @ 9'         G         1         X         X         226/14         100         ×           TT-1 @ 9'         G         1         X         X         226/14         100         ×           TT-1 @ 9'         G         1         X         X         2226/14         130         ×           TT-1 @ 15'         G         1         X         X         2226/14         130         ×           TT-1 @ 15'         G         1	State:       NM       Zip:       88260       Attn::       Tony Savole         6-2378       Fax #:       (575)396-1429       Address:       522 W. Marland         6-2378       Fax #:       (575)396-1429       Address:       522 W. Marland         U #183 Flowline       State:       NM       Zip:       88220       90         Eddy Co.; NM       Phone #:       (432)556-8730       68220       90       90         el Lowry       Fax #:       MATRIX       PRESERV.       SAMPLING       90       90         Sample I.D.       0000 gr	State:       NM       ZIP:       88260       Attn::       Tony Savoie         6-2378       Fax #:       (F75)396-1429       Address:       52.20       Marland         Project Owner::       City:       Carsbad       Carsbad       (B10000)         Eddy Co.; NM       Phone #:       (432)396-8730       (B10000)       (B10000)         el Lowny       Fax #:       Fax #:       (B10000)       (B10000)       (B10000)       (B100000)       (B1000000)       (B1000000000)       (B1000000000000000000000000000000000000	State: NM       ZIP:       88260       Attr::       Tory Savoie         6-2378       Fax #:       (575)396-1429       Address:       522 W. Marland         B-2378       Frax #:       (575)396-1429       Address:       522 W. Marland         UJ #183 Flowline       State:       NM       Zip:       88220         Eddy Co. NM       Phone #:       (432)556-8730       Pione #:       (432)556-8730         el Lowry       Fax #:       Presserv.       SAMPLING         Sample I.D.       Will W. Margington Billing       Wattrief Presserv.       SAMPLING         TT-1 @ 5'       G 1       X       X       220/14       100       X       X         TT-1 @ 15'       G 1       X       X       220/14       100       X       X         TT-1 @ 15'       G 1       X       X       220/14       100       X       X         TT-1 @ 15'       G 1       X       X       220/14       130       X       X         TT-1 @ 15'       G 1       X       X       220/14       130       X       X         TT-1 @ 15'       G 1       X       X       220/14       130       X       X       Z       Z	State: NM       Zip:       88260       Atm::       Tory Savoie         6-2378       Fax #:       (575)396-1429       Address:       522 W. Martand         Project Owner:       City:       Carstad         U.# #83 Flowline       State:       NM       Zip:       88220         Eddy Co. NM       Phone #:       (432)556-8730       Fg       Fg         el Lowry       Fax #:       (75)       G1       Y       PRESERV       SAMPLING         Sample I.D.       000000000000000000000000000000000000	State:       NM       ZIP:       B8260       Attr::       Tory Service         6-2378       Fax #:       (375)396-1429       Address:       522 W. Marland         9:000000000000000000000000000000000000	State:         NM         Zp:         88260         Attr::         Tory Service           6-2378         Fax #:         (575)396-1429         Address:         522 W. Marland           B-2378         Fax #:         (575)396-1429         Address:         522 W. Marland           B-2378         Fax #:         (575)396-1429         Address:         522 W. Marland           B-2378         Fax #:         (575)396-1429         Address:         522 W. Marland           Eddy Cox, NM         Phone #:         (432)556-6730         90	State:       NM       Zip:       88260       Attr::       Tony Savole         6-2378       Fax #:       (575)336-1429       Address:       522 W. Marland         6-2378       Fax #:       City:       Canesod         W183 Flowline       State:       NM       Zip:       88220         Eddy Cox: NM       Phone #:       (432)556-6730       G       G         Sample I.D.       W183 Flowline       W183 Flowline       Fax #:       File       File         Sample I.D.       W183 Flowline       W183 Flowline       File       File       File       File         Sample I.D.       W183 Flowline       W183 Flowline       File       File	State:       NM       Zip:       88260       Attr::       Tony Service         6-2378       Fax #:       (75)336-1429       Address:       5220       Matrin         90       Project Owner:       City:       Carabad       90	State:       NM       Zip:       S8260       Attr::       Tony Savole         0-2378       Fax #:       (75)396-1429       Address:       522 W. Martand         0-2378       Project Owner:       City:       Genebad         10 #138 Flowline       State:       NM       Zip:       Genebad         10 #138 Flowline       State:       NM       Zip:       Genebad         10 with 35 flowline       State:       NM       Zip:       Genebad         10 with 35 flowline       MATEIX       PRESERV       SAMPLING         10 with 35 flowline       MATEIX       PRESERV       SAMPLING         10 with 35 flowline       G       1       X       Zip:14       100       X       X       X         10 with 35 flowline       G       1       X       Zip:14       100       X       X       X       Image: Signature         10 with 35 flowline       G       1       X       Zip:14       100       X       X       X       Image: Signature       Image: Signature <t< td=""><td>State: NM       Zp:       B8260       Attr:       Tory Swole         0-2378       Fax #: (975)396-1429       Address:       522 W. Martand         0-2378       Project Owner:       City:       Cartainad         10 #183 Flowline       State: NM       Zip:       68200         eduy Cor, NM       Project Owner:       City:       Cartainad         10 wr       Pax #:       MATRIX       Pressec.son         9       9       9       9       9         10 wr       Pax #:       Pressec.son       0       1         10 wr       Pax #:       Value:       2/20/14       100       x       x         11 @ 15       0       1       X       X       2/20/14       100       x       x       1         11 @ 15       0       1       X       X       2/20/14       100       x       x       1       1         11 @ 15       0       1       X       2/26/24       110       x       1</td><td>State: NM       Zp:       B8220       Attr::       Tory Savia         6-2378       Fax #:       (67)(306-1429       Address:       522 W. Martend         0.2378       Project Owner:       City::       Cartical       gr         1.21833 Flowing       State:       NM       Phone #:       (62)(306 #730         Eddy Co::       NM       Phone #:       (62)(306 #730       Fax #:         Sample I,D.       30       10       MATRIX       PRESERV       SAMPLING         Sample I,D.       30       10       X       X       X       X         Sample I,D.       30       10       X       X       X       X       X         Th-1 @ 5       G       1       X       X       226/14       100       X       X       X       X         Th-1 @ 5       G       1       X       X       226/14       130       X</td><td>State: NM       Zp:: 88260       Attr::       Toy Syste         62373       Fax #: (075)396-1429       Address:       522 W. Marland         V11435 Hould With The Control of the Contro</td><td>State: NM       Zp: 85260       Attr::       Tors Service         62378       Fax #: (575)306-1429       Address:       527.0         H183 Flowing       City::       Catelinad         20170       Fright Conner:       City::       Catelinad         19183 Flowing       State: NM       Zp: 68220       State: NM         20190       Fright Conner:       City::       Catelinad         19183 Flowing       Fright Conner:       City::       Catelinad         19183 Flowing       Fright Conner:       City::       Catelinad         19183 Flowing       Fright Conner:       Fright Conner:       Fright Conner:         19183 Flowing       Fright Conner:       Fright Conner:       Fright Conner:       Fright Conner:         19183 Flowing       Fright Conner:       Fright Conner:       Fright Conner:       Fright Conner:       Fright Conner:         1918 Flowing       Git Conner:       City::       City::       City::       City::       City::       City::       City::         1918 Flowing       Git Conner:       Fright Conner:       Fright Conner:       City::       City::&lt;</td><td>State: NM. Zp:       82820       Attr:       Terry Servic         6-2378       Fox #: (57)396-1423       Address:       92.00 Model         Project/Owner:       Chry:       Chry:       Chry:       Chry:         LH3S Flowing       State: M. Zp:       86220       90</td></t<>	State: NM       Zp:       B8260       Attr:       Tory Swole         0-2378       Fax #: (975)396-1429       Address:       522 W. Martand         0-2378       Project Owner:       City:       Cartainad         10 #183 Flowline       State: NM       Zip:       68200         eduy Cor, NM       Project Owner:       City:       Cartainad         10 wr       Pax #:       MATRIX       Pressec.son         9       9       9       9       9         10 wr       Pax #:       Pressec.son       0       1         10 wr       Pax #:       Value:       2/20/14       100       x       x         11 @ 15       0       1       X       X       2/20/14       100       x       x       1         11 @ 15       0       1       X       X       2/20/14       100       x       x       1       1         11 @ 15       0       1       X       2/26/24       110       x       1	State: NM       Zp:       B8220       Attr::       Tory Savia         6-2378       Fax #:       (67)(306-1429       Address:       522 W. Martend         0.2378       Project Owner:       City::       Cartical       gr         1.21833 Flowing       State:       NM       Phone #:       (62)(306 #730         Eddy Co::       NM       Phone #:       (62)(306 #730       Fax #:         Sample I,D.       30       10       MATRIX       PRESERV       SAMPLING         Sample I,D.       30       10       X       X       X       X         Sample I,D.       30       10       X       X       X       X       X         Th-1 @ 5       G       1       X       X       226/14       100       X       X       X       X         Th-1 @ 5       G       1       X       X       226/14       130       X	State: NM       Zp:: 88260       Attr::       Toy Syste         62373       Fax #: (075)396-1429       Address:       522 W. Marland         V11435 Hould With The Control of the Contro	State: NM       Zp: 85260       Attr::       Tors Service         62378       Fax #: (575)306-1429       Address:       527.0         H183 Flowing       City::       Catelinad         20170       Fright Conner:       City::       Catelinad         19183 Flowing       State: NM       Zp: 68220       State: NM         20190       Fright Conner:       City::       Catelinad         19183 Flowing       Fright Conner:       City::       Catelinad         19183 Flowing       Fright Conner:       City::       Catelinad         19183 Flowing       Fright Conner:       Fright Conner:       Fright Conner:         19183 Flowing       Fright Conner:       Fright Conner:       Fright Conner:       Fright Conner:         19183 Flowing       Fright Conner:       Fright Conner:       Fright Conner:       Fright Conner:       Fright Conner:         1918 Flowing       Git Conner:       City::       City::       City::       City::       City::       City::       City::         1918 Flowing       Git Conner:       Fright Conner:       Fright Conner:       City::       City::<	State: NM. Zp:       82820       Attr:       Terry Servic         6-2378       Fox #: (57)396-1423       Address:       92.00 Model         Project/Owner:       Chry:       Chry:       Chry:       Chry:         LH3S Flowing       State: M. Zp:       86220       90

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March 07, 2014

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

RE: PLU #183 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/05/14 9:15.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited 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:	03/05/2014	Sampling Date:	02/26/ 2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	PLU #183 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi H∈nson
Project Location:	EDDY COUNTY, NM		

### Sample ID: WSW (IN-SITU) (H400667-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	03/07/2014	ND	432	108	400	0.00	

### Sample ID: SSW #1B (H400667-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	03/07/2014	ND	432	108	400	0.00	

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celez 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 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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name:	Basin Environmental Service Techn	olog	ies,	LLC	;		BILL TO ANALYSIS REQUEST									والمتحدثين الموال									
Project Manager:	Joel Lowry							Ρ.	0. #	:															
Address: P.O.	Box 301							c	omp	any:		BOPC	O, LP	ł	}		Ì		ĺ	Ì	i ·	İ		l İ	
City: Lovington	State: NM	Zip	: 8	826	0			At	tn:			Tony Save	pie .	1						· .					
Phone #: (575)	396-2378 Fax #: (575)39	96-14	429					A	ddre	ss:		522 W. M	arland												
Project #:	Project Owner	;						Ci	ity:			Carlsbac	3							]					
Project Name:	PLU #183 Flow Line							St	tate:	NN	<b>n</b> :	Zìp:	88220	e	TPH (8015M)	BTEX (8021B)						}			
Project Location:	Eddy Co., NM							PI	hone	#:		(432)556	-8730	Chloride	801	(80									
Sampler Name:	Joel Lowry							Fa	ax #:					ਲ	н Н	Ĕ									
FOR LAB USE ONLY			Γ		ĥ	AT	XIX_	-,	PR	ESER	<u>iv</u>	SAMPLI	NG	1.	Ħ	ВТ			{		[				
Lab I.D. H4001007	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
	WSW (In-Situ)	G	1			x				x		2/26/14	900	x											
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Relinquished By:	Date: 3/5/14	Received By:	NM (	Phone Result: Fax Result:	□ Yes □ Yes	O No	Add'l Phone #: Add'l Fax #:	
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Refinquished By: With Market By: Delivered By: (Circle One)		Received By:	Kenson	Please er TASavoie	nail resul @BassP	ts to pm	@basinenv.com, & SJWalters@BassPet.com	
SampleORUP\$06 Bus - Other:	0.4							
	† Card	dinal cannot accept v	erbal changes. Please fa	x written chang	es to 575-	-393-247	6	

H54