Basin Environmental Service Technologies, LLC

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

Effective Solutions

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NMOCD ARTESIA

REMEDIATION SUMMARY

AND

SITE CLOSURE REQUEST

BOPCO, LP

POKER LAKE UNIT #261 Eddy County, New Mexico Unit Letter "J" (NWSE), Section 21, Township 24 South, Range 30 East Latitude 32.201420° North, Longitude 103.883103° West NMOCD Reference # 2RP-399

Prepared For:

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

Prepared By:

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

April 2011

Ben J. Arguijo

Project Manager

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FIGURES

Figure 1 – Site Location Map Figure 2 – Site & Sample Location Map

TABLES

Table 1 - Concentrations of Benzene, BTEX, TPH & Chlorides in Soil

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Appendix A – Release Notification and Corrective Action (Form C-141)

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INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Site Closure Request* for the release site known as Poker Lake Unit #261 (PLU #261). The legal description of the release site is Unit Letter "J" (NWSE), Section 21, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.201420° North latitude and 103.883103° West longitude. The property affected by the release is owned by The United States Department of the Interior, Bureau of Land Management (BLM). A "Site Location Map" is provided as Figure 1.

On March 9, 2010, BOPCO discovered a release had occurred at the PLU #261 Tank Battery. A quarter-inch (1/4") fitting on a water transfer pump failed, resulting in a release of produced water and crude oil. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on March 10, 2010. The "Release Notification and Corrective Action" (Form C-141) indicated approximately three hundred and ten (310) barrels of produced water and approximately ten (10) barrels of crude oil were released, and approximately three hundred (300) barrels were recovered. The release occurred inside the tank battery, which has Falcon BBL poly-lined containment, and the majority of the release was confined inside the containment area. A heavy mist impacted the areas to the east and northeast of the facility. The heavily misted area was back-dragged, and a Micro-Blaze® solution was applied to the affected area. The "Release Notification and Corrective Action" is provided as Appendix B.

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 21, Township 24 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately three hundred (300) to three hundred and twenty-five (325) feet 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 #261 release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

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

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

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On July 20, 2010, Basin collected seventeen (17) soil samples (Background, Sample 1 @ 6", Sample 2 @ 6", Sample 2 @ 2', Sample 2 @ 4', Sample 2 @ 6', Sample 2 @ 7', Sample 2 @ 8', Sample 3 @ 6", Sample 4 @ 6", Sample 5 @ 6", Sample 6 @ 6", Sample 6 @ 2', Sample 6 @ 4', Sample 7 @ 6", Sample 8 @ 6", and Sample 9 @ 6") to delineate the vertical and horizontal impact at the site. The soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride concentrations using EPA Method 4500 Cl-B. Selected soil samples (Sample 1 @ 6", Sample 2 @ 6", Sample 5 @ 6", Sample 6 @ 6", and Sample 6 @ 2') were also analyzed for total petroleum hydrocarbon (TPH) concentrations using EPA SW-846 8015M. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chlorides in Soil". A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

Laboratory analytical results indicated chloride concentrations ranged from less than the appropriate laboratory method detection limit (MDL) for soil samples Background, Sample 3 @ 6", Sample 5 @ 6", Sample 7 @ 6", and Sample 8 @ 6" to 9,000 mg/Kg for soil sample Sample 1 @ 6". TPH concentrations ranged from less than the appropriate laboratory MDL for soil samples Sample 5 @ 6", Sample 6 @ 6", and Sample 6 @ 2' to 738 mg/Kg for soil sample Sample Sample 2 @ 6". TPH concentrations were less than the NMOCD regulatory standard for each of the submitted soil samples.

On March 11, 2011, excavation of impacted soil commenced at the site. From March 11 through March 14, 2011, approximately one hundred and fifty-four (154) cubic yards (cy) of impacted soil was excavated, blended with non-impacted soil, and stockpiled on-site, pending final disposition.

On March 14, 2011, six (6) soil samples (North Wall, South Wall, East Wall, West Wall, Floor, and Stock Pile) were collected from the floor and sidewalls of the excavation and submitted to Cardinal Laboratories for analysis of TPH and chloride concentrations. Selected soil samples (East Wall and Stock Pile) were also analyzed for concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method SW-846 8021b.

Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL for all soil samples analyzed. TPH concentrations ranged from less than the laboratory MDL for soil samples North Wall, South Wall, East Wall, West Wall, and Floor to 11.2 mg/Kg for soil sample Stock Pile. Chloride concentrations ranged from less than the laboratory MDL for soil samples North Wall, South Wall, and Floor to 112 mg/Kg for soil samples Stock Pile.

Based on laboratory analytical results, on March 15 and 16, 2011, the excavation was backfilled in eighteen (18)-inch lifts, compacted, and contoured to fit the surrounding topography. Prior to backfilling, final dimensions of the excavation were approximately sixty-five (65) feet in length, approximately thirty-two (32) feet in width, and approximately two (2) feet in depth.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories, Inc., of 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 modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method SM 4500 CI-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floors and sidewalls of the PLU #261 excavation were analyzed by an NMOCD-approved laboratory, and concentrations of Benzene, BTEX, TPH, and chloride were below the remediation action levels established for the site. Based on these analytical results, Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary and Site Closure Request* and request the NMOCD grant site closure to the PLU #261 release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

DISTRIBUTION:

Copy 1:

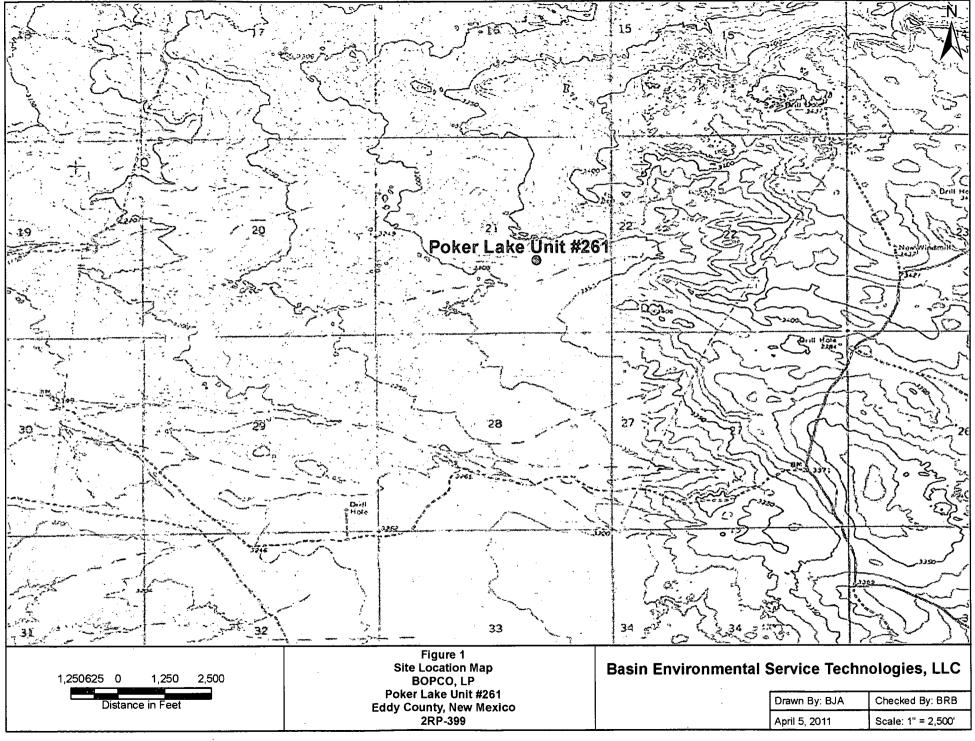
Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 2) 1301 E. Grand Avenue Artesia, New Mexico 88210

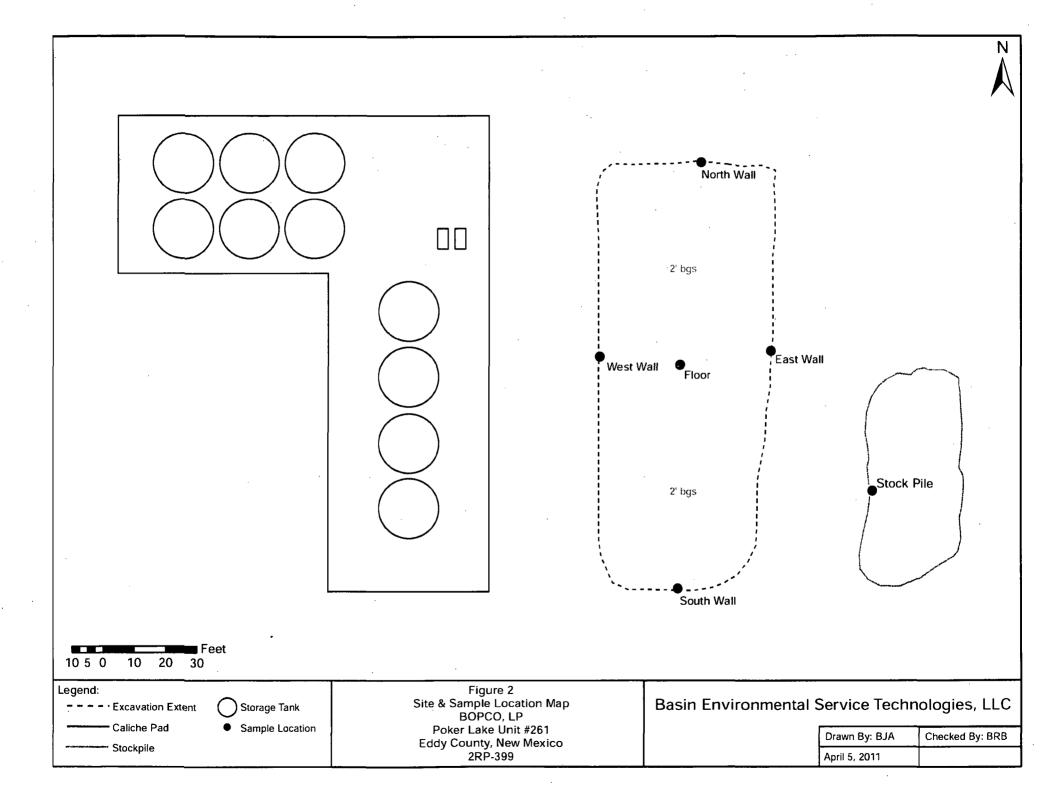
Copy 2: James Amos Bureau of Land Management 602 E. Greene Street Carlsbad, New Mexico 88220

Copy 3: Tony Savoie BOPCO, LP 522 W. Mermod, Ste. 704 Carlsbad, New Mexico 88220 Copy 4: Basin Environmental Service Teo

4: Basin Environmental Service Technologies, LLC P.O. Box 301 Lovington, New Mexico 88260

Figures





Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP POKER LAKE UNIT #261 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-399

				METHOD: EPA SW-846 8021B METHOD: SW-846 8015M TOTA				METHOD: EPA SW-846 8021B METHOD: SW-84				METHOD: EPA SW-846 8021B METHOD: SW-846 8015M							
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 ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	ТРН С ₆ -С ₃₅	CHLORIDE (mg/Kg)						
Background	Surface	7/20/2010	In-Situ	-	-	-	-	-	-	-	-	· -	<16.0						
Sample 1 @ 6"	6"	7/20/2010	In-Situ	-	-	-	-	-	<10.0	32.5	<10.0	32.5	9,000						
Sample 2 @ 6"	6"	7/20/2010	In-Situ		-	-	-	-	<10.0	738	<10.0	738	1,600						
Sample 2 @ 2'	2'	7/20/2010	In-Situ	-	-	-	-	-	-	-		-	992						
Sample 2 @ 4'	4'	7/20/2010	In-Situ	-	-	-	-	-	-	-	-	-	64.0						
Sample 2 @ 6'	6'	7/20/2010	In-Situ	-	-	-	-	-	-	-	-	-	224						
Sample 2 @ 7'	7'	7/20/2010	In-Situ	-	-	-	-	· -	-	-	-	-	384						
Sample 2 @ 8'	8'	7/20/2010	In-Situ	-	-	-	-	-	-	-	-	-	272						
Sample 3 @ 6"	6"	7/20/2010	In-Situ	-	-	-	-	-	-	-	-	-	<16.0						
Sample 4 @ 6"	6"	7/20/2010	In-Situ	· -	-	-	-	-	-	-	-	-	64.0						
Sample 5 @ 6"	6"	7/20/2010	In-Situ	-	-		-	-	<10.0	<10.0	<10.0	<10.0	<16.0						
Sample 6 @ 6"	6"	7/20/2010	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	224						
Sample 6 @ 2'	2'	7/20/2010	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	1,880						
Sample 6 @ 4'	4'	7/20/2010	In-Situ	•	-	-	-	-	-	-	-	-	2,960						
Sample 7 @ 6"	6"	7/20/2010	In-Situ	-	-	-	- ·	-	-	-	-	-	<16.0						
Sample 8 @ 6"	6"	7/20/2010	In-Situ	-	-	-	-	-	-	-	-	-	<16.0						
Sample 9 @ 6"	6"	7/20/2010	In-Situ	-	-	•.	-	-	-	-	-	-	80.0						
	· · · ·	· · · ·	1.5	1.01	· · · ·					81.) - 81.) -		4. 1	10 A						
North Wall	2'	3/14/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0						
South Wall	2'	3/14/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0						
East Wall	2'	3/14/2011	In-situ	< 0.050	<0.050	< 0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	16.0						
West Wall	2'	3/14/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	16.0						
Floor	2'	3/14/2011	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	<16.0						
Stock Pile	N/A	3/14/2011	N/A	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	11.2	<10.0	11.2	112						
NMOCD Criteria				- 10				50	<u>.</u>		······	5,000	1,000						

- = Not analyzed.

Appendices

Appendix A Release Notification & Corrective Action (Form C-141)

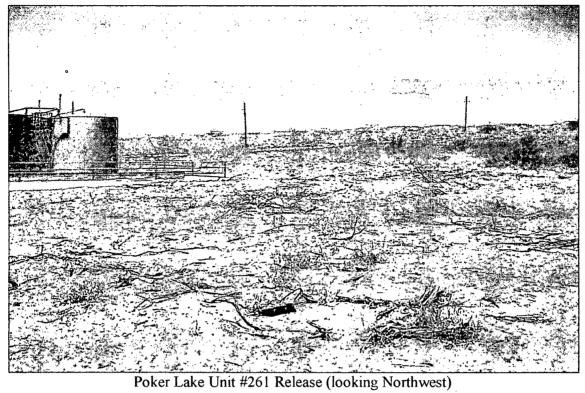
District 1 1625 N. French Dr., Hobbs District II 1301 W. Grand Avenue, A District III 1000 Rio Brazos Road, Az District IV 1220 S. St. Francis Dr., Sat Name of Company Address 522 W. M	tesia, NM 8821(ec, NM 87410 nta Fe, NM 8750 BOPCO, L	5 Rela	Energy Minerals Oil Conse 1220 Sou Santa I ease Notificatio	ervation Di th St. Fran Fe, NM 87 on and C CRATOR Contact T	al Resources vision cis Dr. N 505 orrective A	ction Initial F	Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance ESIA with Rule 116 on back side of form			
Facility Name Pok				Facility Ty		· · · · · · · · · · · · · · · · · · ·	· · · · ·			
Surface Owner Fed	eral		Mineral Owner	Federal		Lease N	10. 30-015-34877			
Unit Letter Section J 21	Township 24S	Range 30E	1	DN OF RE h/South Line South	LEASE Feet from the 1880	East/West Line East	County Eddy			
		Latit	ude 32.201420° Nort	<u>h</u>	Longitude 103	3. 883103° West				
Type of Release Produced Source of Release Piper Was Immediate Notice	e fitting failure Given?			E OF RELEASE Volume of Release 310 bbls of produced water and <10 bbls of crude oil						
By Whom? Tony Sav Was a Watercourse Re If a Watercourse was I	ached?		X No *		Hour 3/10/10, 070 olume Impacting t	0 Left mssg. Retur he Watercourse.	ned call later.			
A 1/4" fitting on a wat Describe Area Affecte The facility has a Falc same day, and all of th and this area was back with a nutrient and m Please reference the at	Describe Cause of Problem and Remedial Action Taken: A 1/4" fitting on a water transfer pump broke off, causing mostly produced water to be released. Describe Area Affected and Cleanup Action Taken. The facility has a Falcon BBL poly-lined containment, which contained most of the product released. A vacuum truck was dispatched to the location the same day, and all of the free-standing fluid was removed. An area measuring approximately 2,000 sq ft east of the site was heavily misted by the release, and this area was backdragged. Another 30,000 sq ft of pasture land was affected by the mist of the produced water release. This area was washed down with a nutrient and microblaze solution the following day. Following initial response activities, the release was remediated as per NMOCD approval. Please reference the attached <i>Remediation Summary and Site Closure Request</i> for remediation details.									
public health or the en should their operations or the environment.	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: Printed Name: Tony S	avoie	June		Approved by District Supervisor:						
Title: Waste Mgmt. &	Remediation S	Specialist		Approval Date: Expiration Date:						
E-mail Address: TASa Date: 12/6/2011	voie@BassPet		Phone: (432)556-8730	Conditions of Approval:						

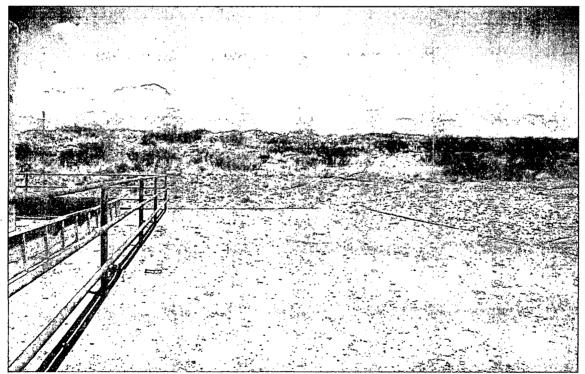
]	District_H	Minerals a A Conser 220 South	New Mexico and Natural Reso vation Division St. Francis Dr. NM 87505		Si	Form C-141 Revised October 10, 2003 bmit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form		
	Release Not		and Correct	tive Actio	R			
	ā		OPERATOR		🛛 Initial R	eport Final Report		
ľ	Address 522 W. Mermod, Suite 704 Carlsbad, N.M. 8		Contact Tony Savo Telephone No. 432	was also as a sublimation of the state of th				
	Facility Name Poker Lake Unit #261		Facility Type E&P					
ſ	Surface Owner Federal Mine	ral Owner F	ederal		Lease No.			
	3001534877 LC	CATION	OF RELEAS	E				
	Unit Letter Section Township Range Feet from 1 1 21 24S 30E [19]60	he North	800th)Line Feet fr	4		punty Idy		
~	-		Longitude W I		M	GW TIOD		
ľ	Type of Release: Produced water and crude oil	ATURE	OF RELEASE			wered: 300 Bbls		
		•	Produced water and Bbls of crude oil					
	Source of Release: Pipe fitting failure on a water transfer pur	pb	Date and Hour of C 3/9/10 Approximat		Dute and Hou 3/9/10 4:00 p	ir of Discovery		
	Was Iramediate Notice Given?		IFYES, To Whom?		Towns web b			
	By Whom? Tony Savoic	of Required	Sherry Bonham Date and Hour 3/10	0/10 7-00 a m 1	eff Mso. Return	ed call later		
Ì	Was a Watercourse Reached?		If YES, Volume Ir					
ļ	If a Watercourse was Impacted, Describe Fully.*		<u></u>					
5	The statements was impressed, reserved ung.					:		
lio								
584	Describe Cause of Problem and Remedial Action Taken.* A		a water transfer pum	p broke off caus	ing mostly prod	uced water to be released.		
04924	The pump was shut down and the damaged fitting was repair Describe Area Affected and Cleanup Action Taken.*The fac vacuum truck was dispatched to the location the same day an east of the site was heavily misted by the release, this area w produced water release. This area was washed down with a n The Site remediation for the produced water and crude oil sp	ility has a Fal d all of the fr as backdragge urrient and m ill will follow	ce standing fluid was ed. Another 30,000 Se ieroblaze solution the the NMOCD guideli	removed. An an q. fl. of pasture e following day. ines for leaks an	rea measuring ap land was affecte ed spills.	pproximately 2,000 sq. ft. d by the mist of the		
4105430724	Thereby certify that the information given above is true and o regulations all operators are required to report and/or file cer- public health or the environment. The acceptance of a C-141 should their operations have failed to adequately investigate or the environment. In addition, NMOCD acceptance of a C- tederal, state, or local laws and/or regulations.	tain release no report by the and remediate	wifications and perfore NMOCD marked as a contamination that p	rm corrective ac "Final Report" rose a threat to p	tions for release does not relieve ground water, su	s which may endanger the operator of liability rface water, human health		
1				<u>, CONSERV</u>	VATION DI			
2524	Signature: 1 Gry Davouren Printed Name: Tony Savoie		Approved of District	Supervisor:	rma C	Soof ACE-WE is believe and leading 191 valmand, water water raison /documentation, while to to fore the on Data.		
(HC:	Title: Waste Mumt& Remediation Specialist		Approval Date: 4-8	-10	Expiration Date	68-10		
ED II								
SN.	E-mail Address: TASavoie@BassPet.com		Conditions of Approval: Notify OCD 48 hours prior to					
	Date: 3/15/10 Phone:432- Attach Additional Sheets If Necessary	556-8730		where analyses	<u> _</u>	2ll-399		
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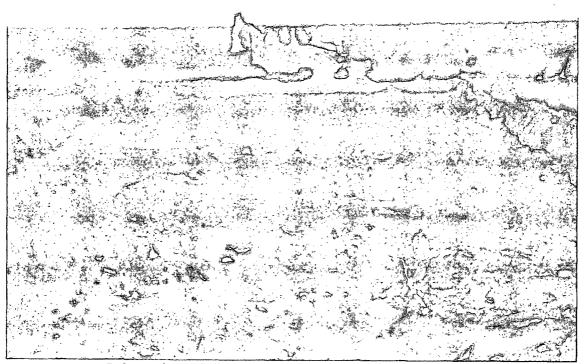
Appendix B

Photographs

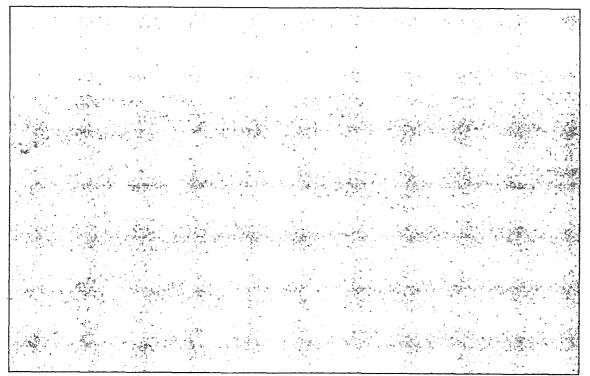




Poker Lake Unit #261 Release (looking North)



Poker Lake Unit #261 - Excavation (sample points flagged)



Poker Lake Unit #261 (looking North, following backfill)

Appendix C

Laboratory Analytical Reports



August 2, 2010

Camille Bryant Basin Environmental Consulting, LLC. P.O. Box 381 Lovington, NM 88260

Re: PLU 261 (BOPCO)

Enclosed are the results of analyses for sample number H20425, received by the laboratory on 07/27/10 at 10:20 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

Method EPA 552.2 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Sincere eene

Laboratory Director

This report conforms with NELAP requirements.



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

ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING, LLC ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 07/27/10 Reporting Date: 07/29/10 Project Owner: BOPCO Project Name: PLU 261 Project Location: EDDY CO., NM Analysis Date: 07/29/10 Sampling Date: 07/20/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6°C Sample Received By: JH Analyzed By: HM

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		CI
LAB NO.	SAMPLE ID	(mg/kg)
H20425-1	BACKGROUND	< 16
H20425-2	SAMPLE 1 @ 6"	9,000
H20425-3	SAMPLE 2 @ 6"	1,600
H20425-4	SAMPLE 2 @ 2'	992
H20425-5	SAMPLE 3 @ 6"	< 16
H20425-6	SAMPLE 4 @ 6"	64
H20425-7	SAMPLE 5 @ 6"	< 16
H20425-8	SAMPLE 6 @ 6"	224
H20425-9	SAMPLE 6 @ 2'	1,880
H20425-10	SAMPLE 6 @ 4'	2,960
H20425-11	SAMPLE 7 @ 6"	< 16
H20425-12	SAMPLE 8 @ 6"	< 16
H20425-13	SAMPLE 9 @ 6"	80
Quality Cont	trol	. 520
True Value	QC	500
% Recovery	·	104
Relative Per	cent Difference	< 0.1

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts.

Not accredited for Chloride.

H20425 Basin Environmental

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event strait Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subbidiaries, attiliates or successors arising out of or related to the performance of services hareunder 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.





ANALYTICAL RESULTS FOR BASIN ENVIRONMENTAL CONSULTING ATTN: CAMILLE BRYANT P.O. BOX 381 LOVINGTON, NM 88260 FAX TO: (575) 396-1429

Receiving Date: 07/27/10 Reporting Date: 08/02/10 Project Owner: BOPCO Project Name: PLU 261 Project Location: EDDY COUNTY, NM Sampling Date: 07/20/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 6⁰C Sample Received By: JH Analyzed By: AB

GRO DRO DRO ext.

 (C_6-C_{10}) (> $C_{10}-C_{28}$) (> $C_{28}-C_{35}$)

		,
(mg/kg)	(mg/kg)	(mg/kg)
07/30/10	07/30/10	07/30/10
<10.0	32.5	<10.0
<10.0	738	<10.0
<10.0	<10.0	<10.0
<10.0	<10.0	<10.0
<10.0	<10.0	<10.0
459	447	-
500!	500	-
91.8 ¹	89.4	-
0.6	1.1	-
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METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended Reported on wet weight. Not accredited for GRO/DRO/DRO Ext.

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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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service in no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, is subsidiaries, affiliates or successors origing out of or related to the performance of services hereunder by Cardinal, regardless of whother 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.

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101 East Marland, Hobbs, NM 88240		1/17
(505) 393-2326 FAX (505) 393-2476	BHLL 70	ANALYSIS REQUEST
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Address: 2800 Mains Husz	Company: FDACO	
City: Lovington Siste: PMZip: 87260	Alto: TOD & SAVOR	
Phone #575-1005-7210Fax #575-396-1429	Company: BOACO Attn: TON & SAVOLE Address: J City: O	
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#26

CARDINAL Laboratories

August 12, 2010

CAMILLE BRYANT

BASIN ENVIRONMENTAL CONSULTING

P. O. BOX 381

LOVINGTON, NM 88260 .

RE: PLU 261

Enclosed are the results of analyses for samples received by the laboratory on 08/10/10 8:40.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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. Kune

Celey D. Keene Lab Director/Quality Manager

CARDINAL Laboratories

Analytical Results For:

BASIN ENVIRONMENTAL CONSULTING CAMILLE BRYANT P. O. BOX 381 LOVINGTON NM, 88260 Fax To: (575) 396-1429

Received:	08/10/2010	Sampling Date:	07/20/2010
Reported:	08/12/2010	Sampling Type:	Soil
Project Name:	PLU 261	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SAMPLE 2 @ 4' (H020591-01)

Chloride, SM4500Cl-B	mg _.	/kg	Analyze	d By: HM					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/11/2010	ND	432	108	400	0.00	

Sample ID: SAMPLE 2 @ 6' (H020591-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/11/2010	ND	432	108	400	0.00	

Sample ID: SAMPLE 2 @ 7' (H020591-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	08/11/2010	ND	432	108	400	0.00	

Sample ID: SAMPLE 2 @ 8' (H020591-04)

Chloride, SM4500Cl-B	mg,	/kg ·	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/11/2010	ND	432	108	400	0.00	

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Celent).Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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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REASE NOTE: Likebility and Dumages. Cardinal's liability and client's exclusive remechy for any claim arising, whether based in contract or bart, shall be limited to the amount padd by client for analyses. All claims, including those for negligence and any other cause whistopers shall be deemed waved unless made in writing and received by claims, including those for analyses, and claims, including those for negligence and any other cause whistopers shall be deemed waved unless made in writing and received by claims, including this analysis, and claims, including those for negligence and any other cause whistopers shall be deemed waved unless made in writing and received by claims, including this analysis, including the applicable service. In no event shall Caudinal be liable for includental or consequential damages, including, without limitation, business histopers, less of use, or less of profits incurred by client, its adviolaties, affiliates or successors arbitring out of or related to the performance of the services hereundes by Cardinal, regardless of whether such climits based unless, neutral tabulations, business interruptions, less of use, or less of profits incurred by client, its adviolations, affiliates or successors arbitring out of or related to the performance of the services hereundes by Cardinal, regardless of whether such climits approval of Cardinal Jaboratories.

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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#26

Page 4 of 4



March 19, 2011

BEN J. ARGUIJO Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: POKER LAKE 261

Enclosed are the results of analyses for samples received by the laboratory on 03/15/11 16:39.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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 Di Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/15/2011	Sampling Date:	03/14/2011
Reported:	03/19/2011	Sampling Type:	Soil
Project Name:	POKER LAKE 261	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: NORTH WALL 2' BGS (H100504-01)

hloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/16/2011	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2011	ND	217	109	200	6.43	
DRO >C10-C28 ,	<10.0	10.0	03/17/2011	ND	192	96.2	200	5.24	
EXT DRO >C28-C35	<10.0	10.0	03/17/2011	ND					
Surrogate: 1-Chlorooctane	109 %	% 70-130	,						
Surrogate: 1-Chlorooctadecane	109 %	6 70-130							•

Sample ID: WEST WALL 2' BGS (H100504-02)

Chloride, SM4500CI-B	mg/	'kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/16/2011	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2011	. ND	217	109	200	6.43	
DRO >C10-C28	<10.0	10.0	03/17/2011	ND	192	96.2	200	5.24	
EXT DRO >C28-C35	<10.0	10.0	03/17/2011	ND				•	
Surrogate: 1-Chlorooctane	111	% 70-130	•						
Surrogate: 1-Chlorooctadecane	115 9	% 70-130							

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alight Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/15/2011	Sampling Date:	03/14/2011
Reported:	03/19/2011	Sampling Type:	Soil
Project Name:	POKER LAKE 261	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: EAST WALL 2' BGS (H100504-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/16/2011	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2011	ND	217	109	200	6.43	
DRO >C10-C28	<10.0	10.0	03/17/2011	ND	192	96.2	200	5.24	
EXT DRO >C28-C35	<10.0	10.0	03/17/2011	ND			·	÷	
Surrogate: 1-Chlorooctane	109 9	% 70-130	• • • • • • • • • • • • • • • • • • • •						
Surrogate: 1-Chlorooctadecane	m	% 70-130)						

Sample ID: FLOOR 2' BGS (H100504-04)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/16/2011	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2011	ND	217	109	200	6.43	
DRO >C10-C28	<10.0	10.0	03/17/2011	ND	192	96.2	200	5.24	
EXT DRO >C28-C35	<10.0	10.0	03/17/2011	ND					
Surrogate: 1-Chlorooctane	. 108	% 70-130)						
Surrogate: 1-Chlorooctadecane	107	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cleim arising, whether based in contract or bot, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed winned unless made in writing and received by Cardinal within thith (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incidental or consequential damages, affiltates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such climits based upon any of the domos faitor leaves of only to the samples incidentation.

Celez Here-

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/15/2011	Sampling Date:	03/14/2011
Reported:	03/19/2011	Sampling Type:	Soil
Project Name:	POKER LAKE 261	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SOUTH WALL 2' BGS (H100504-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/16/2011	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2011	ND	217	109	200	6.43	
DRO >C10-C28	<10.0	10.0	03/17/2011	ND	192	96.2	200	5.24	
EXT DRO >C28-C35	<10.0	10.0	03/17/2011	ND					
Surrogate: 1-Chlorooctane	120	% 70-130)						
Surrogate: 1-Chlorooctadecane	123	% 70-130)						

Sample ID: STOCK PILE (H100504-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/16/2011	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2011	ND	217	109	200	6.43	
DRO >C10-C28	11.2	10.0	03/17/2011	ND	192	96.2	200	5.24	
EXT DRO >C28-C35	<10.0	10.0	03/17/2011	ND					
Surrogate: 1-Chlorooctane	116 9	% 70-130) .						
Surrogate: 1-Chlorooctadecane	113 9	% 70-130)						

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*=Accredited Analyte

PLEXE NOTE: Linkbilly and Damages. Cardinal's liability and cleant's exclusive remedy for any claim arising, whether based in contract or bort, shall be limited to the amount padd by client for analyses. All claims, including those for negligence and any other cause whotsoever shall be deemed waved unless made in writing and received by cleant within (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business hieruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whethe such claim is based unor any of the damoe statist (easies or otherse.

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Basin Environmental Service Technologies, LLC BILL TO ANALYSIS REQUEST Project Manager: Ban J. Arguijo P.O. #: Company; BOPCO, LP Address: P.O. Box 301 State: 114 Zip: 88260 Aitn: Tony Savoie City: Lovington Phone #: (575) 396-2378 Fax #: (575) 396-1429 Address: 522 w. Mermod Project Owner: EOPCO, LP City: Carlsbad Project #: Project Name: Poker Lake 261 State: NM Zip: 88220 Project Location: EDDY NM Phone #: (433) 556-8730 Jody Walters Sampler Name: Fax #: PRESERV. FOR LAE USE CHILY MATRIX SAMPLING 000 **BROUNDWATE** BOISM Chloride NASTEWATER OTHER: ACID/BASE: ICE / COOL OTHER: Sample I.D. Lab I.D. Ю SLUDGE G)RAB SOIL 5 DATE TIME HICKEO4.1 XI North Wall 2' B65 ŀ 3-14-11 8: SOAN 1 X Westwall 2'B65 G XI 9:00ton Y 3-14-11 2 3 EASTWALL 2'BLS X 9:10Am G X 3-14-11 X G x X 9:20Am 4 Floor 2'B65 3-14-11 ¥ X C 9:30AM 5 South wall 2'BLS 3.14-11 X X h Stock Pile ۸ 9:40AM 3-14-11 λ ÷

PLEASE NOTE: Liability and Danlages. Cardinal's lactory and clent's evolutive remercy for any daim arrong whether based in contract or tant, shall be triated to the amount paid by the dient for the abulyses. All claims including those for negligence and any other cause impassoers shall be deemed waived unloss made in writing and recover by Cardinal With 30 days after correlation of the approable service, In no prent shat Cardinal be fullie for incidental or consequental namages, stologing without limitation, busness interruptions, loss of use, or loss of prolas incurred by clean, 45 subsidiantes,

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-398-2476									
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