

Basin Environmental Service Technologies, LLC

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Lovington, New Mexico 88260
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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

**BOPCO, LP
POKER LAKE UNIT #236
Eddy County, New Mexico
UNIT LTR "H" (SE/NE), Section 19, Township 24 South, Range 30 East
Latitude 32.206120° North, Longitude 103.912591° West**

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**

June 2011

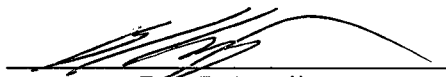

Ben J. Arguijo
Project Manager

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1.0 INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Poker Lake Unit #236. The legal description of the release site is Unit Letter "H" (SE/NE), Section 19, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.206120° North latitude and 103.912591° West longitude. The property affected by the release is owned by The United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On July 5, 2010, BOPCO discovered a release had occurred at the Poker Lake Unit #236 pumping well. A pipe connection on the wellhead of the chemical injection pump was damaged, 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. The "Release Notification and Corrective Action" (Form C-141) indicated approximately five (5) barrels of produced water and approximately five (5) barrels of crude oil was released, with no recovery. The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 19, Township 24 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred and twenty-five (225) to two hundred and fifty (250) 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 #236 release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

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

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

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On July 15, 2010, Basin collected seventeen (17) soil samples (SP #1 @ 1', SP #1 @ 3', SP #2 @ 1', SP #2 @ 3', SP #2 @ 8', SP #3 @ 1', SP #3 @ 6', SP #3 @ 12', SP #3b @ 2', SP #4 @ 1', SP #4 @ 6', SP #4 @ 12', SP #5 @ 1', SP #6 @ 1', Baseline Northwest @ 1', Baseline Northwest @ 3', and Northeast Pad Surface) to delineate the vertical and horizontal extent of contamination 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 (SP #1 @ 1', SP #2 @ 3', SP #3 @ 1', SP #3 @ 12', SP #4 @ 1', and SP #4 @ 12') were also analyzed for total petroleum hydrocarbon (TPH) concentrations using EPA Method 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 laboratory method detection limit (MDL) in soil samples SP #5 @ 1', SP #6 @ 1', Baseline Northwest @ 1', and Northeast Pad Surface to 7,920 mg/Kg in soil sample SP #3 @ 1'. TPH concentrations ranged from less than the laboratory MDL in soil samples SP #2 @ 3', SP #3 @ 1', SP #3 @ 12', and SP #4 @ 12' to 64.6 mg/Kg in soil sample SP #1 @ 1'. Review of the laboratory analytical results indicated TPH concentrations were less than the NMOCD regulatory standard for all submitted soil samples.

On January 21, 2011, excavation of impacted soil began at the site. Hach Quantab Chloride Low Range (30-600 mg/Kg) Titrators were used to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. Excavation to the east of the release was precluded by the proximity of the Poker Lake Unit #236 well. Excavated soil was stock-piled on-site, pending final disposition.

From January 24 through February 11, 2011, approximately eleven hundred (1,100) cubic yards of impacted soil was excavated and transported to Lea Land, Inc. (NMOCD Permit # WM-01-035), for disposal.

On January 25, 2011, two (2) soil samples (Well Head Area 6' BGS and Well Head Area 10' BGS) were submitted to Cardinal Laboratories for analysis of chloride concentrations. Soil sample Well Head Area 10' BGS was also analyzed for TPH and benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations. Chloride concentrations ranged from 256 mg/Kg in soil sample Well Head Area 10' BGS to 720 mg/Kg in soil sample Well Head Area 6' BGS. TPH and BTEX constituent concentrations in soil sample Well Head Area 10' BGS were less than the appropriate laboratory MDL. Review of the laboratory analytical results indicated BTEX, TPH, and chloride concentrations were less than NMOCD regulatory standards for all submitted soil samples.

On January 26, 2011, two (2) soil samples (North Runoff West Floor and North Runoff Mid Floor) were submitted to Cardinal Laboratories for analysis of TPH and chloride concentrations. TPH concentrations were less than the laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 160 mg/Kg in soil sample North Runoff West Floor to 256 mg/Kg in soil sample North Runoff Mid Floor. Review of the laboratory analytical results indicated TPH

and chloride concentrations were less than NMOCD regulatory standards for all submitted soil samples.

On January 27, 2011, three (3) soil samples (North Runoff Area North Wall, North Runoff Area East Wall, and North Runoff Area East Floor) were submitted to Cardinal Laboratories for analysis of TPH and chloride concentrations. TPH concentrations were less than the laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 208 mg/Kg in soil sample North Runoff Area North Wall to 480 mg/Kg in soil sample North Runoff Area East Wall. Review of the laboratory analytical results indicated TPH and chloride concentrations were less than NMOCD regulatory standards for all submitted soil samples.

On February 11, 2011, seven (7) soil samples (North Runoff Sec 2 North Wall, North Runoff Sec 2 West Wall, North Runoff Sec 2 Floor, South Runoff North Wall, South Runoff South Wall, South Runoff West Wall, and South Runoff Floor) were submitted to Cardinal Laboratories for analysis of TPH and chloride concentrations. TPH concentrations were less than the laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 224 mg/Kg for soil sample North Runoff Sec 2 North Wall to 880 mg/Kg for soil sample South Runoff North Wall. Review of the laboratory analytical results indicated TPH and chloride concentrations were less than NMOCD regulatory standards for all submitted soil samples.

Based on laboratory analytical results, on February 11, 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 one-hundred and eleven (111) feet in length, approximately sixty-one (61) feet in width, and ranging in depth from approximately one (1) foot to eight and one-half (8.5) 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 EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 4500 Cl-B

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

Soil samples collected from the floors and sidewalls of the PLU #236 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 & Site Closure Request* and request the NMOCD grant site closure to the PLU #236 release site.

6.0 LIMITATIONS

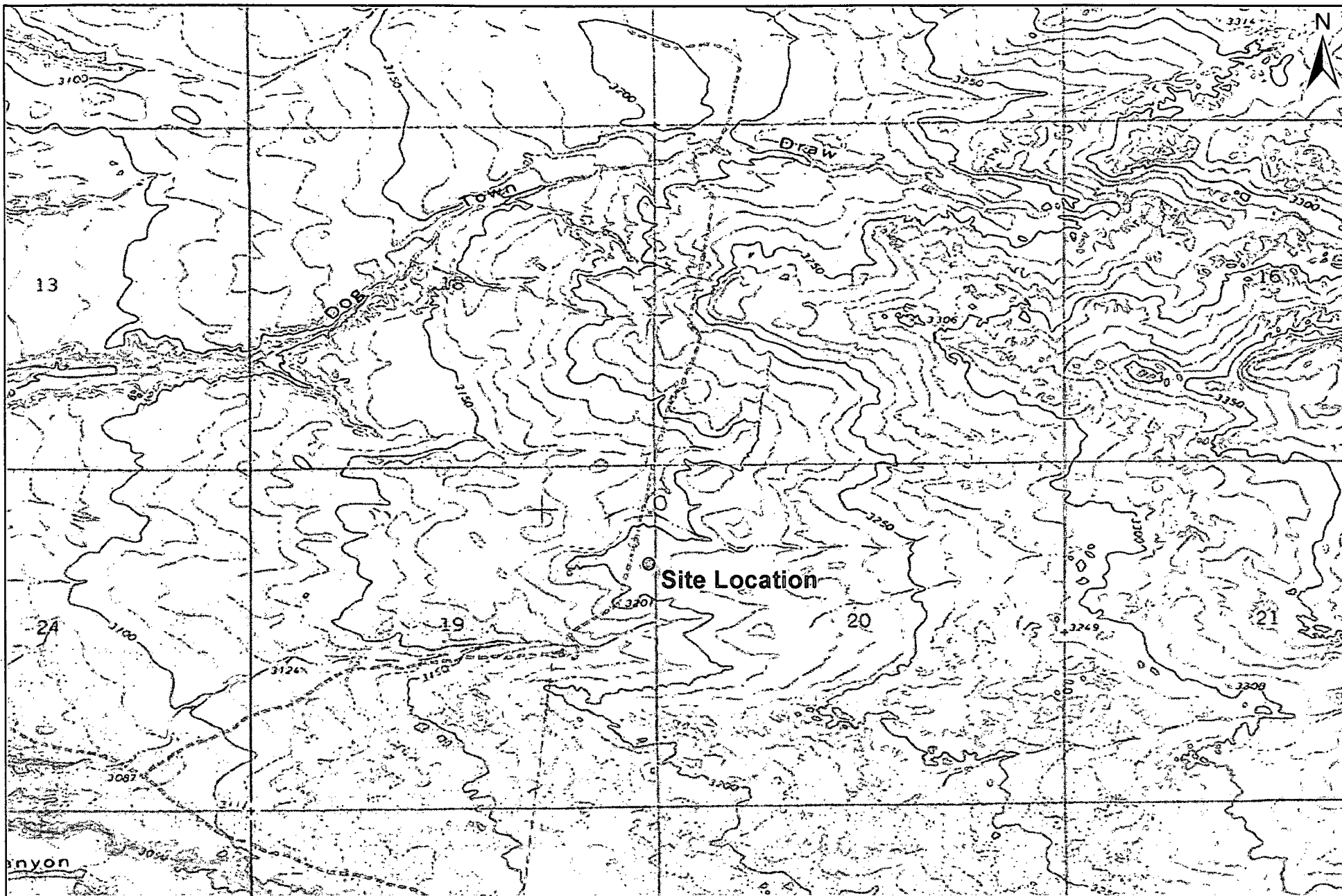
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by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

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

7.0 DISTRIBUTION:

- Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 2)
1301 E. Grand Avenue
Artesia, NM 88210
- Copy 2: James Amos
Bureau of Land Management
602 E. Greene Street
Carlsbad, NM 88220
- Copy 3: Tony Savoie
BOPCO, LP
522 W. Mermod, Suite 704
Carlsbad, NM 88220
- Copy 4: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, NM 88260

Figures




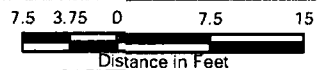
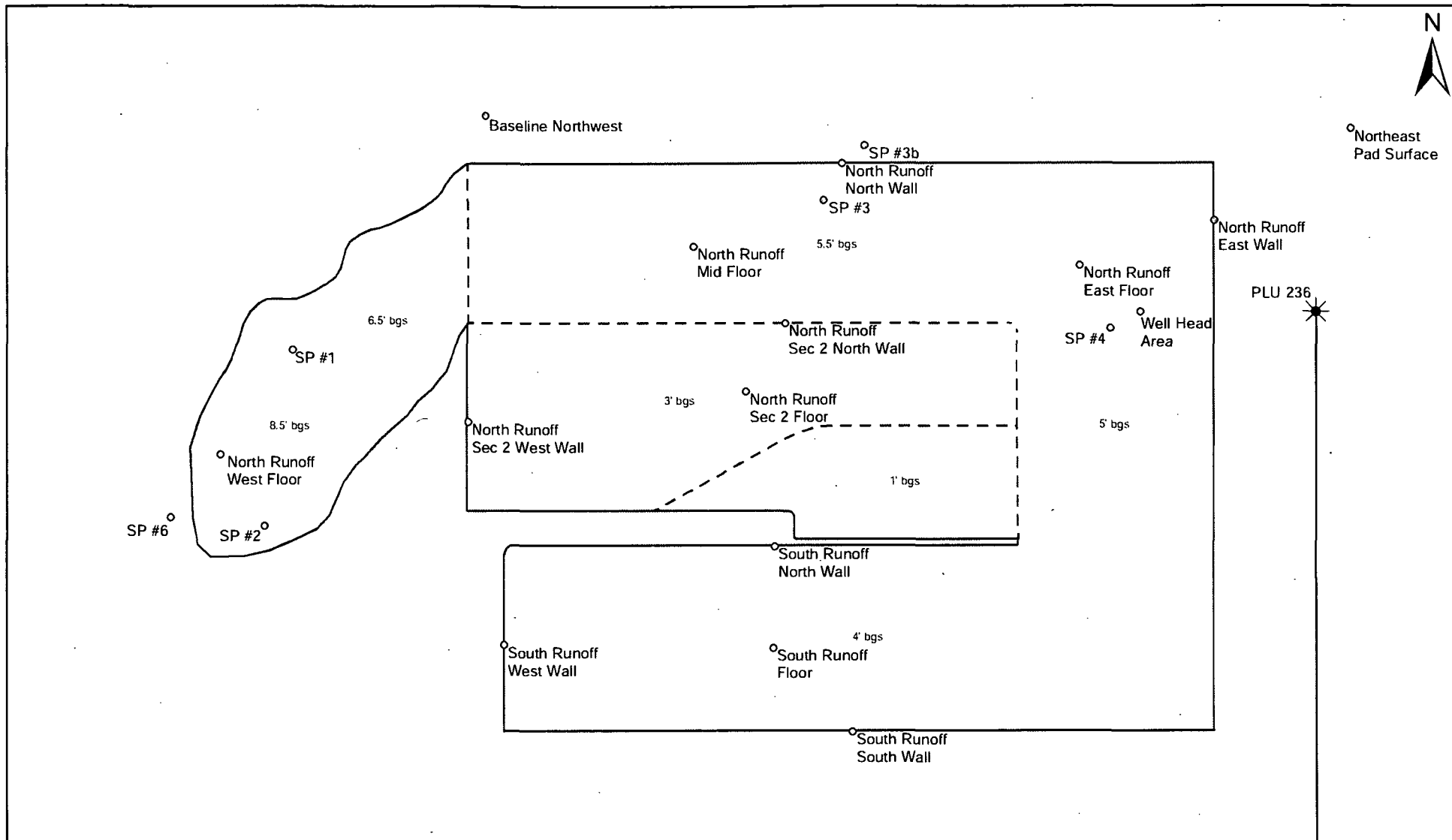
1,000 500 0 1,000 2,000

 Distance in Feet

Figure 1
Site Location Map
BOPCO, LP
Poker Lake Unit #236
Eddy County, New Mexico



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

Drawn By: BJA	Checked By: BRB
June 8, 2011	Scale: 1" = 2000'



Legend:

- Excavation Extent
- Pipeline
- Caliche Pad
- Sample Location
- * PLU #236 Well

Figure 2
Site & Sample Location Map
BOPCO, LP
Poker Lake Unit #236
Eddy County, New Mexico



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

Drawn By: BJA	Checked By: BRB
June 9, 2011	Scale: 1" = 60'

Tables

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP
POKER LAKE UNIT 236 PUMPING WELL
EDDY COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH	4500 CI-B
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₈ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	C ₈ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
SP #1 @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	<10.0	20.9	43.7	64.6	256
SP #1 @ 3'	3'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	144
SP #2 @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	32
SP #2 @ 3'	3'	07/15/10	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	480
SP #2 @ 8'	8'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	432
SP #3 @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	7,920
SP #3 @ 6'	6'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	240
SP #3 @ 12'	12'	07/15/10	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	592
SP #3b @ 2'	2'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	288
SP #4 @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	<10.0	15.1	<10.0	15.1	4,000
SP #4 @ 6'	6'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	416
SP #4 @ 12'	12'	07/15/10	In-situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	272
SP #5 @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	<16
SP #6 @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	<16
Baseline Northwest @ 1'	1'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	<16
Baseline Northwest @ 3'	3'	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	256
Northeast Pad Surface	Surface	07/15/10	In-situ	-	-	-	-	-	-	-	-	-	<16
Well Head Area 6' BGS	6'	1/25/2011	In-situ	-	-	-	-	-	-	-	-	-	720
Well Head Area 10' BGS	10'	1/25/2011	In-situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10	<10	<10	<10	256
North Runoff West Floor	5.5'	1/26/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	256
North Runoff Mid Floor	4.5'	1/26/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	160
North Runoff Area North Wall	5.5'	1/27/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	208
North Runoff Area East Wall	5.5'	1/27/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	480
North Runoff Area East Floor	5.5'	1/27/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	416
North Runoff Sec 2 North Wall	6.5'	2/11/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	224
North Runoff Sec 2 West Wall	8.5'	2/11/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	656
North Runoff Sec 2 Floor	8.5'	2/11/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	240
South Runoff North Wall	4'	2/11/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	880
South Runoff South Wall	4'	2/11/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	656
South Runoff West Wall	4'	2/11/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	800
South Runoff Floor	4'	2/11/2011	In-situ	-	-	-	-	-	<10	<10	<10	<10	496
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

Appendices

Appendix A

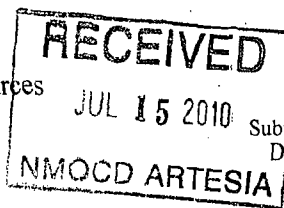
Release Notification &

Corrective Action (Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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



Form C-141
Revised October 10, 2003

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

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. 432-556-8730	
Facility Name Poker Lake Unit 236 Pumping Well	Facility Type E&P	
Surface Owner Federal	Mineral Owner Federal	Lease No.

LOCATION OF RELEASE

Unit Letter H	Section 19	Township 24S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude N 32.206120 Longitude W 103.912591

NATURE OF RELEASE

Type of Release: Produced water and crude oil	Volume of Release: 5 Bbls of Produced water and 5 Bbls of crude oil.	Volume Recovered: 0
Source of Release: 1" pipe connection on the well head.	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 7/5/10 8:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A pipe connection on the well head for the chemical injection pump was damaged possibly by a cow. The well was shut down stopping the release of fluid, the line and connections were replaced.		
Describe Area Affected and Cleanup Action Taken.* The released fluid affected an area of approximately 5400 sq. ft on the caliche well pad, the saturated soil was scrapped up and placed on plastic on the well pad location. The area will be sampled for vertical extent on 7/14/10. A remediation plan with the sample results will be submitted to the NMOCD following the recommended guidelines for the remediation of leaks and spills.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

OIL CONSERVATION DIVISION

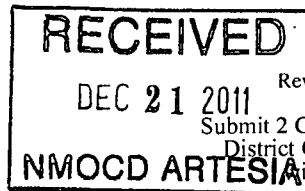
Signature:	Approved by District Supervisor:	
Printed Name: Tony Savoie		
Title: Waste Mgmt. & Remediation Specialist	Approval Date:	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/14/10	Phone: 432-556-8730	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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



Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report

☒ Final Report

Name of Company	BOPCO, LP	Contact	Tony Savoie
Address	522 W. Mermod, Suite 704, Carlsbad, NM 88220	Telephone No.	(432)556-8730
Facility Name	Poker Lake Unit 236 Pumping Well	Facility Type	E&P
Surface Owner	Federal	Mineral Owner	Federal
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	19	24S	30E					Eddy

Latitude 32.206120° North

Longitude 103.912591° West

NATURE OF RELEASE

Type of Release	Produced water and crude oil	Volume of Release	5 bbls of produced water and 5 bbls of crude oil	Volume Recovered	None
Source of Release	A 1" pipe connection on the well head.	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	7/5/2010, 8:00 AM
Was Immediate Notice Given?	Yes No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Tony Savoie	Date and Hour 7/5/10, 10:30 AM			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

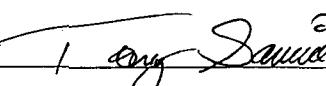
Describe Cause of Problem and Remedial Action Taken:

A pipe connection on the well head for the chemical injection pump was damaged, possibly by a cow. The well was shut down stopping the release of fluid, and the line and connections were replaced.

Describe Area Affected and Cleanup Action Taken.

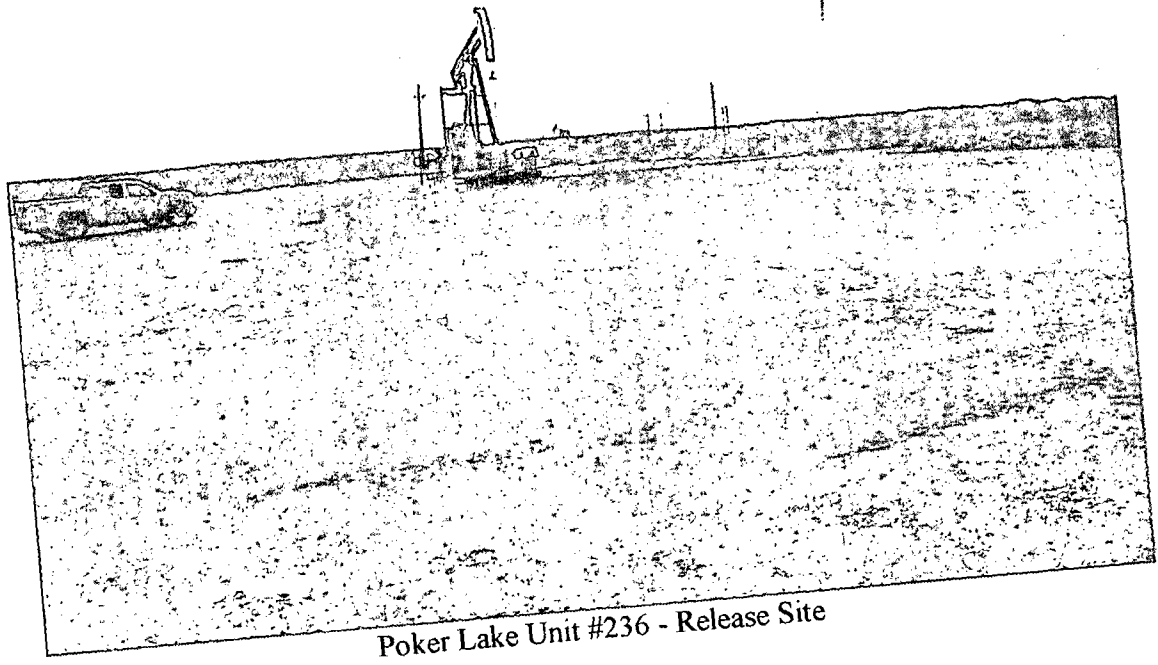
The released fluid affected an area of approximately 5,400 sq. ft on the caliche well pad. The saturated soil was scrapped up and placed on plastic on the well pad location. Following initial response activities, the release was remediated as per NMOC approval. Please reference the attached *Remediation Summary & Site Closure Request* for remediation details.

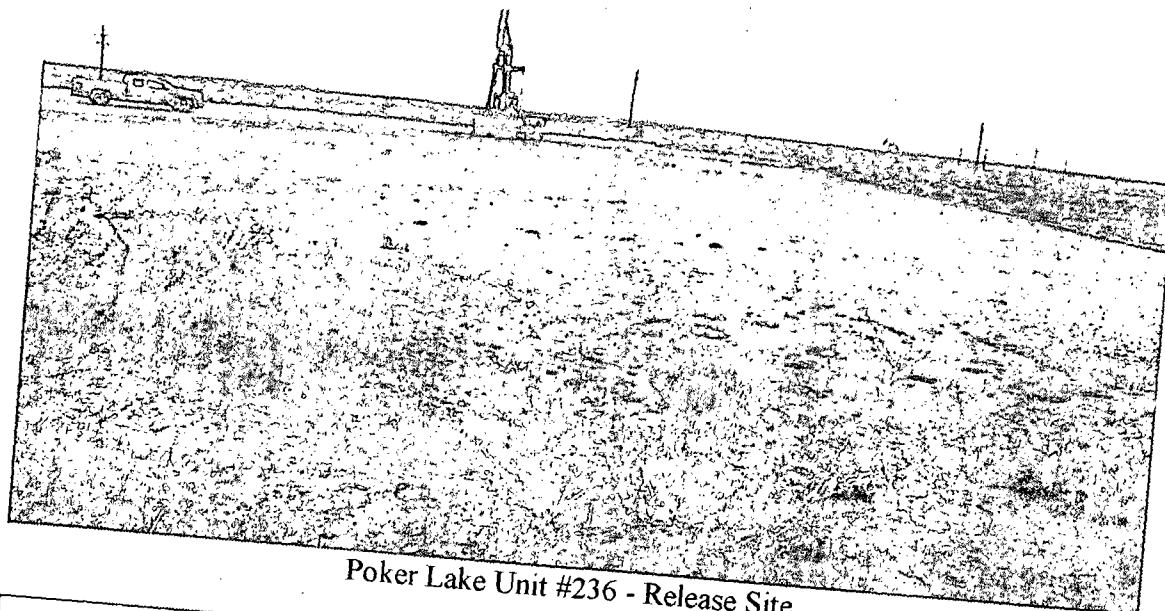
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases, which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC 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, NMOC 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: 	OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie	Approved by District Supervisor:	
Title: Waste Mgmt. & Remediation Specialist	Approval Date:	Expiration Date:
E-mail Address: TASavoie@BassPet.com	Conditions of Approval:	
Date: 12/6/2011	Phone: (432)556-8730	

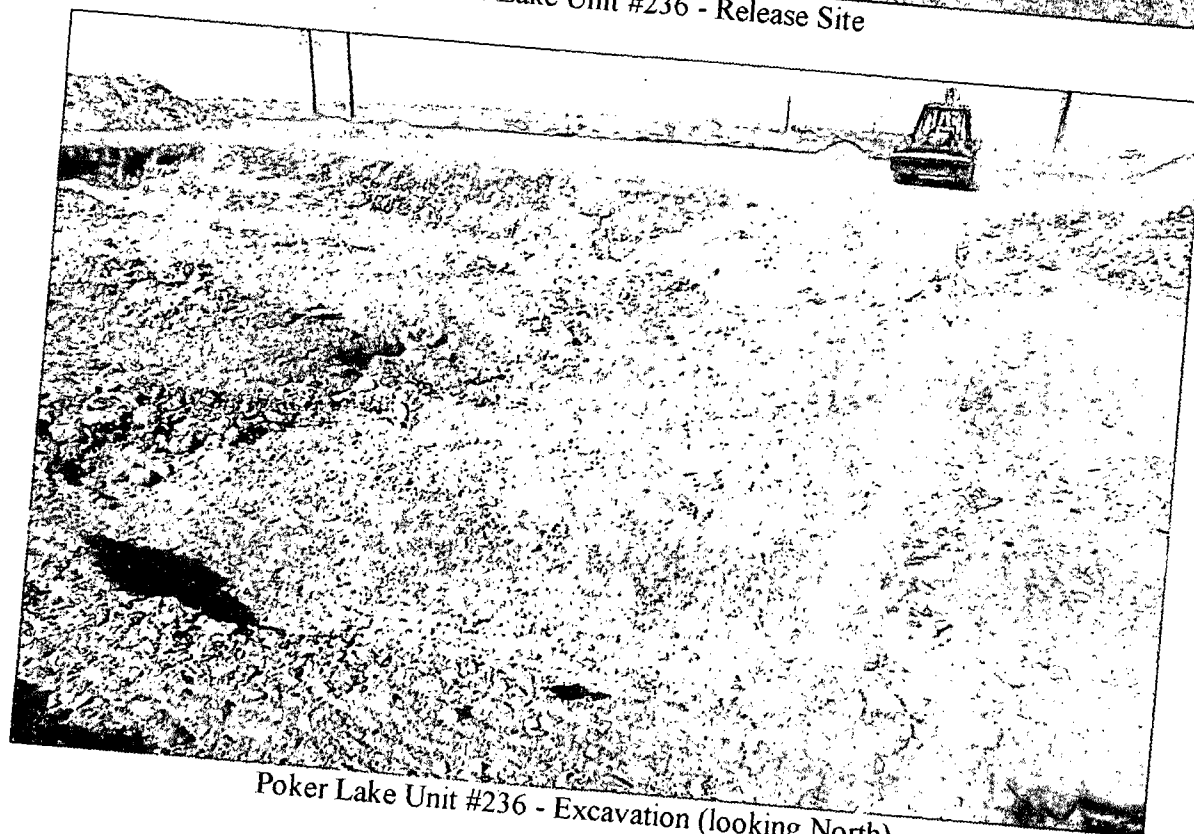
Appendix B

Photographs





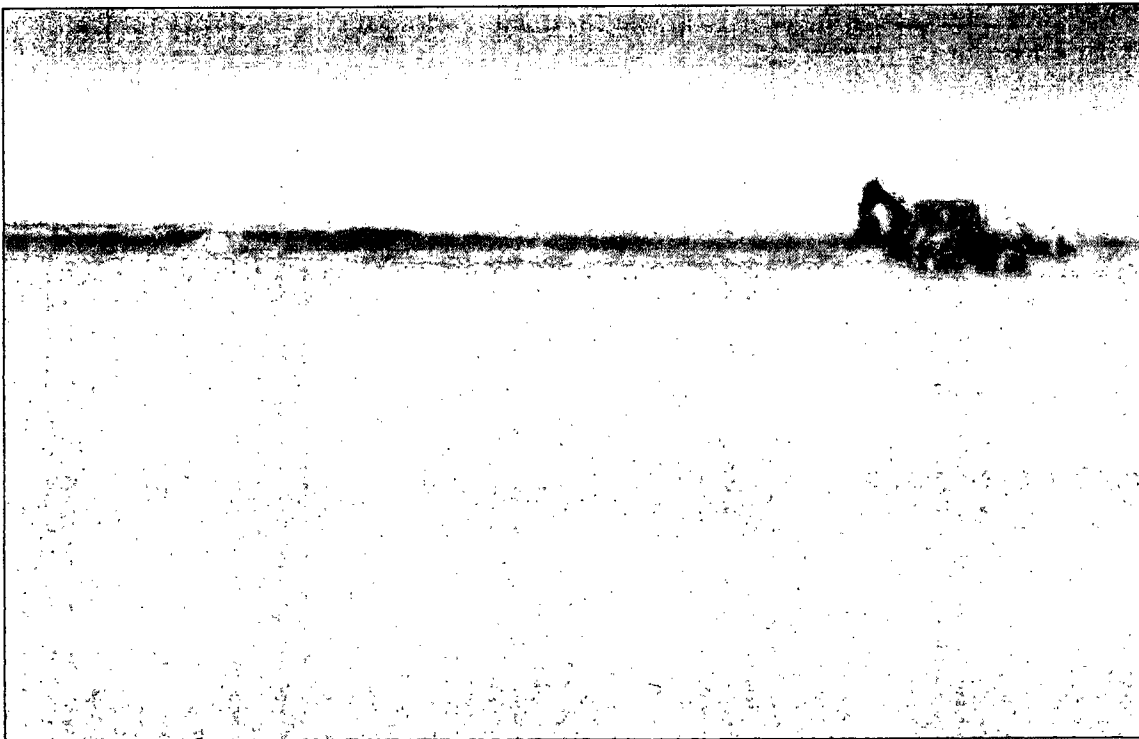
Poker Lake Unit #236 - Release Site



Poker Lake Unit #236 - Excavation (looking North)



Poker Lake Unit #236 - Excavation (looking West)



Poker Lake Unit #236 - Excavation (following backfill)

Appendix C

Laboratory Analytical Reports



ARDINAL LABORATORIES

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

July 27, 2010

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

Re: PLU 236 (BOPCO)

Enclosed are the results of analyses for sample number H20382, received by the laboratory on 07/20/10 at 3:50 pm.

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 Hydrocarbons

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

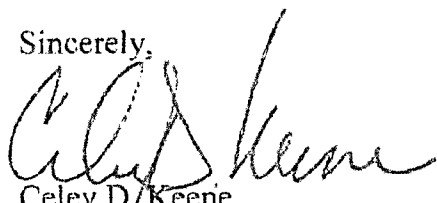
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

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: 07/20/10
Reporting Date: 07/24/10
Project Owner: NOT GIVEN
Project Name: PLU 236
Project Location: NOT GIVEN

Analysis Date: 07/22/10
Sampling Date: 07/15/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 2.5°C
Sample Received By: JH
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/kg)
H20382-1	SP #1 @ 1'	256
H20382-2	SP #1 @ 3'	144
H20382-3	SP #2 @ 1'	32
H20382-4	SP #2 @ 3'	480
H20382-5	SP #2 @ 8'	432
H20382-6	SP #3 @ 1'	7,920
H20382-7	SP #3 @ 6'	240
H20382-8	SP #3 @ 12'	592
H20382-9	SP #3b @ 2'	288
H20382-10	SP #4 @ 1'	4,000
H20382-11	SP #4 @ 6'	416
H20382-12	SP #4 @ 12'	272
H20382-13	SP #5 @ 1'	< 16
H20382-14	SP #6 @ 1'	< 16
H20382-15	BASLINE NORTHWEST @ 1'	< 16
H20382-16	BASLINE NORTHWEST @ 3'	256
H20382-17	NORTHWEST PAD SURFACE	< 16
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods

4500-Cl⁻B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

07/27/10

H20382 Basin

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Result 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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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240


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

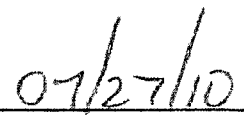
Receiving Date: 07/20/10
Reporting Date: 07/26/10
Project Owner: NOT GIVEN
Project Name: PLU 236
Project Location: NOT GIVEN

Sampling Date: 07/15/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 2.5°C
Sample Received By: JH
Analyzed By: AB

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	DRO ext. (>C ₂₈ -C ₃₅) (mg/kg)
		07/22/10	07/22/10	07/22/10
H20382-1	SP#1 @ 1'	<10.0	20.9	43.7
H20382-4	SP#2 @ 3'	<10.0	<10.0	<10.0
H20382-6	SP#3 @ 1'	<10.0	<10.0	<10.0
H20382-8	SP#3 @ 12'	<10.0	<10.0	<10.0
H20382-10	SP#4 @ 1'	<10.0	15.1	<10.0
H20382-12	SP#4 @ 12'	<10.0	<10.0	<10.0
Quality Control		487	476	-
True Value QC		500	500	-
% Recovery		97.4	95.2	-
Relative Percent Difference		0.6	0.6	-

METHODS: TPH GRO & DRO: EPA SW-846 8015 M extended
Reported on wet weight. Not accredited for GRO/DRO/DRO Ext.


Lab Director


Date

H20382 TPHEXT BASIN

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1-2

ARDINAL LABORATORIES

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

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7-2



February 04, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 236

Enclosed are the results of analyses for samples received by the laboratory on 01/25/11 16:07.

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 Hydrocarbons

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

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/25/2011
Reported: 02/04/2011
Project Name: PLU 236
Project Number: AFE 24752
Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 01/25/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WELL HEAD AREA 6' BGS (H100174-01)

Chloride, SM4500CI-B			mg/kg		Analyzed By: LR				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	01/26/2011	ND	432	108	400	0.00	

Sample ID: WELL HEAD AREA 10' BGS (H100174-02)

BTEx 8021B			mg/kg		Analyzed By: CMS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2011	ND	2.21	111	2.00	5.26	
Toluene*	<0.050	0.050	02/03/2011	ND	2.27	113	2.00	7.18	
Ethylbenzene*	<0.050	0.050	02/03/2011	ND	2.32	116	2.00	8.13	
Total Xylenes*	<0.150	0.150	02/03/2011	ND	6.86	114	6.00	7.52	

Surrogate: 4-Bromofluorobenzene (PIL) 96.0 % 70-130

Chloride, SM4500CI-B			mg/kg		Analyzed By: LR				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/26/2011	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: AB				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2011	ND	249	99.6	250	1.08	
DRO >C10-C28	<10.0	10.0	01/27/2011	ND	227	90.8	250	0.143	
EXT DRO >C28-C35	<10.0	10.0	01/27/2011	ND					

Surrogate: 1-Chlorooctane 94.8 % 70-130

Surrogate: 1-Chlorooctadecane 101 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

January 28, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 236

Enclosed are the results of analyses for samples received by the laboratory on 01/26/11 16:51.

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 Hydrocarbons

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

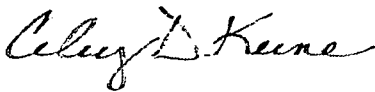
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/26/2011
Reported: 01/28/2011
Project Name: PLU 236
Project Number: AFE 24752
Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 01/26/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N RUNOFF W FLOOR 5.5 BGS (H100188-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: JM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/27/2011	ND	448	112	400	3.64	
TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/27/2011	ND	249	99.6	250	1.08	
DRO >C10-C28	<10.0	10.0	01/27/2011	ND	227	90.8	250	0.143	
EXT DRO >C28-C35	<10.0	10.0	01/27/2011	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	108 %	70-130							
<i>Surrogate: 1-Chlorooctadecane</i>									
	114 %	70-130							

Sample ID: N RUNOFF MID FLOOR 4.5 BGS (H100188-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: LR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/27/2011	ND	448	112	400	3.64	
TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2011	ND	249	99.6	250	1.08	
DRO >C10-C28	<10.0	10.0	01/28/2011	ND	227	90.8	250	0.143	
EXT DRO >C28-C35	<10.0	10.0	01/28/2011	ND					
<i>Surrogate: 1-Chlorooctane</i>									
	93.1 %	70-130							
<i>Surrogate: 1-Chlorooctadecane</i>									
	99.5 %	70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

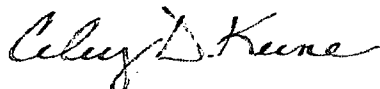
Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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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

[illegible]



February 01, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 236

Enclosed are the results of analyses for samples received by the laboratory on 01/27/11 15:38.

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 Hydrocarbons

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

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/27/2011
Reported: 02/01/2011
Project Name: PLU 236
Project Number: AFE 24752
Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 01/27/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NORTH RUNOFF AREA E FLOOR 5.5 BGS (H100193-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/28/2011	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	<10.0	10.0	01/31/2011	ND	211	84.4	250	2.46	
EXT DRO >C28-C35	<10.0	10.0	01/31/2011	ND					
Surrogate: 1-Chlorooctane									
	94.9 %	70-130							
Surrogate: 1-Chlorooctadecane									
	97.3 %	70-130							

Sample ID: NORTH RUNOFF AREA E WALL 5.5 BGS (H100193-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	01/28/2011	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	<10.0	10.0	01/31/2011	ND	211	84.4	250	2.46	
EXT DRO >C28-C35	<10.0	10.0	01/31/2011	ND					
Surrogate: 1-Chlorooctane									
	107 %	70-130							
Surrogate: 1-Chlorooctadecane									
	109 %	70-130							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/27/2011
Reported: 02/01/2011
Project Name: PLU 236
Project Number: AFE 24752
Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 01/27/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NORTH RUNOFF AREA N WALL 5.5 BGS (H100193-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/28/2011	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2011	ND	236	94.4	250	0.298	
DRO >C10-C28	<10.0	10.0	01/31/2011	ND	211	84.4	250	2.46	
EXT DRO >C28-C35	<10.0	10.0	01/31/2011	ND					

Surrogate: 1-Chlorooctane 99.7 % 70-130

Surrogate: 1-Chlorooctadecane 102 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

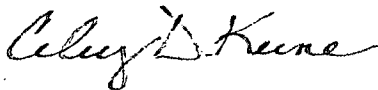
Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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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

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

February 15, 2011

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU 236

Enclosed are the results of analyses for samples received by the laboratory on 02/11/11 17:26.

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 Hydrocarbons

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

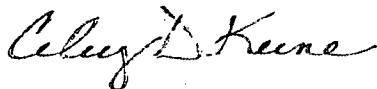
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/11/2011
Reported: 02/15/2011
Project Name: PLU 236
Project Number: AFE 24752
Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 02/11/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOUTH RUNOFF W WALL 4' (H100283-01)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/14/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					

Surrogate: 1-Chlorooctane 78.6 % 70-130

Surrogate: 1-Chlorooctadecane 79.9 % 70-130

Sample ID: SOUTH RUNOFF S WALL 4' (H100283-02)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	02/14/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					

Surrogate: 1-Chlorooctane 99.8 % 70-130

Surrogate: 1-Chlorooctadecane 105 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 02/11/2011
Reported: 02/15/2011
Project Name: PLU 236
Project Number: AFE 24752
Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 02/11/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N RUNOFF SEC 2 N WALL 6.5 (H100283-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/14/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane	90.8 %	70-130							
Surrogate: 1-Chlorooctadecane	101 %	70-130							


Sample ID: N RUNOFF SEC 2 FLOOR 8.5 (H100283-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/14/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane	97.9 %	70-130							
Surrogate: 1-Chlorooctadecane	105 %	70-130							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/11/2011
Reported: 02/15/2011
Project Name: PLU 236
Project Number: AFE 24752
Project Location: EDDY COUNTY, NEW MEXICO

Sampling Date: 02/11/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N RUNOFF SEC 2 W WALL 8.5 (H100283-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	02/14/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane	98.6 %	70-130							
Surrogate: 1-Chlorooctadecane	103 %	70-130							

Sample ID: S RUNOFF N WALL 4' (H100283-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	02/14/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane	101 %	70-130							
Surrogate: 1-Chlorooctadecane	107 %	70-130							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/11/2011
 Reported: 02/15/2011
 Project Name: PLU 236
 Project Number: AFE 24752
 Project Location: EDDY COUNTY, NEW MEXICO

 Sampling Date: 02/11/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S RUNOFF FLOOR 4' (H100283-07)

Chloride, SM4500Cl-B		mg / kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/14/2011	ND	416	104	400	0.00	
TPH 8015M		mg / kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/15/2011	ND	214	107	200	0.929	
DRO >C10-C28	<10.0	10.0	02/15/2011	ND	226	113	200	1.74	
EXT DRO >C28-C35	<10.0	10.0	02/15/2011	ND					
Surrogate: 1-Chlorooctane									
	89.8 %	70-130							
Surrogate: 1-Chlorooctadecane									
	94.7 %	70-130							

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO						ANALYSIS REQUEST							
Company Name: Basin Environmental Service Technologies, LLC Project Manager: Ben J. Arquilio Address: P.O. Box 301 City: Lovington State: NM Zip: 89260 Phone #: (575) 396-2378 Fax #: (575) 396-1439 Project # : AFE 24752 Project Owner: BOPCO, LP Project Name: PLU 236 Project Location: EDDY NEAR MEXICO Sampler Name: Tody Walters							P.O.#: Company: BOPCO, LP Attn: Tony Savoie Address: 522 W. Hermod City: Carlsbad State: NM Zip: 88220 Phone #: (432) 556-8730 Fax#:						
FOR LAB USE ONLY				# CONTAINERS		MATRIX	PRESERV.	SAMPLING					
Lab I.D.	Sample I.D.	GIRABOR C/O.M.P.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	DATE	TIME
HIC0253-	South Runoff West well 4'	G	1	X						X		2-11-11	9:10 AM
	2 South Runoff South well 4'	G	1		X					X		2-11-11	9:20 AM
	3 North Runoff Sec 2 North Well 6 1/2	G	1		X					X		2-11-11	9:30 AM
	4 North Runoff Sec 2 Floor 8 1/2	G	1		X					X		2-11-11	9:40 AM
	5 North Runoff Sec 2 westwell 8 1/2	G	1		X					X		2-11-11	9:50 AM
	6 South Runoff North well 4'	G	1		X					X		2-11-11	10:00 AM
	7 South Runoff Floor 4'	G	1		X					X		2-11-11	10:10 am
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Relinquished By:		Date:	Received By:		Time:	Phone Result:		Add'l Phone #:					
(Signature)		2/11/11	(Signature)		5:26	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		(Number)					
Relinquished By:		Date:	Received By:		Time:	Fax Result:		Add'l Fax #:					
(Signature)			(Signature)			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		(Number)					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition: Cool - Intact		CHECKED BY: (Initials)		Please email results to pm@basinenv.com & TSavoie@BassPot.com							
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Signature)									

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476