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

HOBBS OCD
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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: Hat Mesa State 31-32 Battery	Facility Type E&P

Surface Owner: State of N.M.	Mineral Owner State of N.M.	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	31	20S	33E					Lea

Latitude N 32.534822 Longitude W 103.700502

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 5 bbls crude oil	Volume Recovered: 0
Source of Release: A 4" truck load line	Date and Hour of Occurrence Un-known	Date and Hour of Discovery 4/18/12 13:20 p.m.
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Connections on the 4" truck load have been leaking over a period of time. The tank battery is currently undergoing a complete re-build of the process lines.

Describe Area Affected and Cleanup Action Taken.*An area covering approximately 200 sq.ft. inside the tank battery earthen containment has been affected by the release. Most of the soil has been excavated and is stockpiled on-site. Soil samples have been collected from the excavated area and are being analyzed for TPH, BTEX and Chlorides. A Remediation plan will be developed and submitted prior to moving the material off-site. The spill will be remediated following the NMOCD guidelines for spill remediation.

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: Tony Savoie	OIL CONSERVATION DIVISION ENV SPECIALIST Approved by ~~District Supervisor~~:	
Printed Name: Tony Savoie		
Title: Waste Mgmt.& Remediation Specialist	Approval Date: 5/21/12	Expiration Date: 7/21/12
E-mail Address: TASavoie@BassPet.com	Conditions of Approval: SUBMIT FINAL C-141 BY 7/21/12	Attached ☐ IRP-5-12-2812
Date: 5/2/12 Phone:432-556-8730		

* Attach Additional Sheets If Necessary

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Energy Minerals and Natural Resources

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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 X 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 Hat Mesa State 31-32 Battery	Facility Type E&P

Surface Owner State of N.M.	Mineral Owner State of N.M.	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	31	20S	33E					Lea

Latitude 32.534822° North **Longitude** 103.700502° West

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 5 bbls crude oil	Volume Recovered 0
Source of Release A 4" truck load line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 4/18/12 13:20 p.m.
Was Immediate Notice Given? Yes No X Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken:* Connections on the 4" truck load line had been leaking over a period of time. During initial response activities, the connections were repaired.

Describe Area Affected and Cleanup Action Taken.* An area covering approximately 200 sq. ft. inside the tank battery earthen containment was affected by the release. Following initial response activities, the release was remediated as per NMOCD recommended guidelines. Please reference the attached *Remediation Summary & Risk-Based 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 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:	OIL CONSERVATION DIVISION	
Printed Name: Ben J. Arguijo (agent on behalf of BOPCO, LP)	Approved by District Supervisor:	
Title: Project Manager, Basin Environmental	Approval Date:	Expiration Date:
E-mail Address: bjarguijo@basinenv.com	Conditions of Approval:	
Date: 7/27/2012 Phone: (575)396-2378		

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

REMEDIATION SUMMARY &

RISK-BASED SITE CLOSURE REQUEST

BOPCO, LP
HAT MESA STATE 31-32 BATTERY
Lea County, New Mexico
Unit Letter "B" (NW/NE), Section 31, Township 20 South, Range 33 East
Latitude 32.534822° North, Longitude 103.700502° West
NMOCD Reference #1RP-5-12-2812

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

July 2012

Ben J. Arguijo
Project Manager

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APPENDICES

1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Risk-Based Site Closure Request* for the release site known as Hat Mesa State 31-32 Battery. The legal description of the release site is Unit Letter "B" (NW/NE), Section 31, Township 20 South, Range 33 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32.534822° North latitude and 103.700502° West longitude. The property affected by the release is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). Please reference Figure 1 for a "Site Location Map".

On April 18, 2012, BOPCO discovered a release had occurred at the Hat Mesa State 31-32 tank battery. Connections on a four-inch (4") truck load line had been leaking for an indeterminate period of time, resulting in the release of approximately five barrels (5 bbls) of crude oil. The release was confined to the earthen containment area surrounding the tank battery. During initial response activities, heavily impacted soil was excavated and stockpiled on-site, pending final disposition.

The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on May 2, 2012. The "Release Notification and Corrective Action" (Form C-141) indicated the release affected an area inside the earthen containment area measuring approximately two hundred square feet (200 ft^2). The Form C-141 is provided as Appendix A.

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 31, Township 20 South, Range 33 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately seventy feet (70') below ground surface (bgs). Based on the NMOCD ranking system, ten (10) 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 Hat Mesa release site has an initial ranking score of ten (10) points. The soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 1,000 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. Due to the depth to groundwater at the Hat Mesa release site and the possibility of groundwater impact, the NMOCD has set the regulatory remediation action level (RRAL) for chloride at 250 mg/Kg.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On April 26, 2012, following initial response activities, delineation of the release site commenced. One (1) hand-augered soil boring was advanced at the site to delineate the vertical extent of impact. The soil boring was advanced in a pooling area of the release located at the center of the Hat Mesa State 31-32 tank battery. The soil boring was advanced to a total depth of approximately two feet (2') bgs. One (1) soil sample (Sample #1) was collected from the soil boring and submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of total petroleum hydrocarbon (TPH) and chloride concentrations using EPA methods SW-846 8015M and 4500 Cl-B, respectively. Laboratory analytical results indicated the TPH concentration in soil sample "Sample #1" was 16,460 mg/Kg, and the chloride concentration was 80.0 mg/Kg. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". A "Site & Sample Location Map" is provided as Figure 2.

Laboratory analytical results indicated further vertical delineation would be required in the area represented by soil sample "Sample #1".

On May 3, 2012, one (1) hand-augered soil boring was advanced in the area represented by soil sample "Sample #1" to further investigate the vertical extent of impact. Soil samples were collected at two-foot (2') intervals and field-screened using a photo-ionization detector (PID) and chloride test kit. Three soil samples (Sample #2, Sample #5, and Sample #6) were collected from the soil boring and submitted to the laboratory for analysis of TPH concentrations. Soil sample "Sample #6" was also analyzed for concentrations of chloride and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method SW-846 8021b. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) in soil sample "Sample #6" to 17,550 mg/Kg in soil sample "Sample #2". BTEX constituent concentrations in soil sample "Sample #6" were less than the appropriate laboratory MDL, and the chloride concentration was 80.0 mg/Kg.

Following advancement of the soil boring, three (3) additional soil samples (Sample #3, Sample #4, and Sample #8) were collected from the pooling area at the center of the tank battery. The soil samples were submitted to the laboratory for analysis of TPH and/or BTEX concentrations. Soil sample "Sample #8" was also analyzed for chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory MDL in all submitted soil samples. BTEX concentrations ranged from 0.547 mg/Kg in soil sample "Sample #8" to 1.017 mg/Kg in soil sample "Sample #4". TPH concentrations ranged from 406 mg/Kg in soil sample "Sample #3" to 5,830 mg/Kg in soil sample "Sample #8". The chloride concentration in soil sample "Sample #8" was 3,480 mg/Kg.

A delineation trench was also advanced at the site to investigate the horizontal and vertical extent of impact at the release point. The delineation trench was located approximately five feet (5') to the northwest of the tank battery, between the tank battery and the earthen containment berm.

The trench was advanced to a total depth of approximately ten feet (10') bgs. Soil samples were collected at selected intervals and field-screened using a PID and chloride test kit. A single confirmation soil sample (Sample #12) was collected from the trench and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated BTEX and TPH constituent concentrations were less than the appropriate laboratory MDL, and the chloride concentration was 9,600 mg/Kg.

Laboratory analytical results indicated further vertical delineation would be required in the area represented by soil sample "Sample #12".

Following excavation of the delineation trench, one (1) five-point composite soil sample (Berm Material) of stockpiled material removed from the earthen containment berm was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL. The TPH concentration was 1,723 mg/Kg, and the chloride concentration was 1,070 mg/Kg.

On May 4, 2012, B&H Maintenance & Construction of Carlsbad, New Mexico, commenced excavation of impacted soil at the site. To facilitate remediation activities, the excavation was divided into two (2) sections: North Excavation and Middle Excavation. The North Excavation was located at the release point, in the area represented by soil samples "Sample #8" and "Sample #12". The Middle Excavation was located in the center of the tank battery, in the area represented by soil samples "Sample #1" through "Sample #6". To preserve the structural integrity of the five (5) on-site storage tanks, the vertical extent of the North Excavation was limited to eight feet (8') bgs, and the vertical extent of the Middle Excavation was limited to five feet (5') bgs. Excavated soil was stockpiled on-site, pending final disposition.

Following excavation activities, four (4) soil samples (North Excavation North Wall, North Excavation South Wall, North Excavation East Wall, and North Excavation West Wall) were collected from the floor and sidewalls of the North Excavation, and three (3) soil samples (Middle Excavation East Wall, Middle Excavation West Wall, and Middle Excavation Bottom) were collected from the floor and sidewalls of the Middle Excavation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory MDL in all submitted soil samples. BTEX concentrations ranged from less than the laboratory MDL in soil sample "Middle Excavation West Wall" to 1.19 mg/Kg in soil sample "North Excavation North Wall". TPH concentrations ranged from less than the laboratory MDL in soil samples "North Excavation South Wall", "North Excavation West Wall", "Middle Excavation East Wall", and "Middle Excavation Bottom" to 1,710 mg/Kg in soil sample "Middle Excavation West Wall". Chloride concentrations ranged from 1,550 mg/Kg in soil sample "North Excavation West Wall" to 19,600 mg/Kg in soil sample "North Excavation North Wall".

Further excavation in the areas represented by soil samples "North Excavation North Wall", "North Excavation East Wall", "North Excavation West Wall", and "Middle Excavation West Wall" was precluded by the presence of the on-site storage tanks and/or numerous pipes and appurtenances.

Based on laboratory analytical results and field-screens, from May 7 through May 8, 2012, the North Excavation and Middle Excavation were backfilled with non-impacted material to approximately eighteen-inches (18") bgs to facilitate the installation of an impermeable liner in the floor of the excavations at a later date. Prior to backfilling, final dimensions of the North Excavation were approximately twenty-two feet (22') in length, ranging in width from approximately four feet (4') to approximately six feet (6'), and ranging in depth from approximately eight feet (8') to approximately ten feet (10'). Final dimensions of the Middle Excavation were approximately twenty feet (20') in length, ranging in width from approximately feet (4') to approximately eight feet (8'), and approximately five feet (5') in depth.

On May 21, 2012, a representative of Basin Environmental met with a representative of the NMOCD Hobbs District Office to submit a *Remediation Summary & Risk-Based Site Closure Strategy* (Work Plan) and to discuss potential locations for up to four (4) proposed soil borings to investigate the vertical extent of impacted soil at the site. The Work Plan and proposed soil boring locations were approved by the NMOCD representative. Approval was also obtained to advance monitor wells at the site, if it was determined that contamination impacted groundwater.

On May 25, 2012, four (4) soil borings (SB-1 through SB-4) were advanced at the site to further investigate the vertical extent of impacted soil. Soil samples were collected at five-foot (5') drilling intervals and field screened using a PID and/or chloride test kit. Selected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Soil boring logs are provided as Appendix C.

Soil boring SB-1 was advanced at the release point, in the footprint of the North Excavation. The soil boring was advanced to a total depth of approximately twenty feet (20') bgs, when the borehole collapsed. The collapse of the borehole was attributed to insufficient compaction of the backfill material by a previous contractor. Soil samples collected at drilling depths of ten feet (10'), fifteen feet (15'), and twenty feet (20') bgs were submitted to the laboratory for analysis of TPH and/or chloride concentrations. Soil sample SB-1@ 20' was also analyzed for BTEX concentrations. Laboratory analytical results indicated TPH concentrations ranged from 760 mg/Kg in soil sample SB-1 @ 20' to 889 mg/Kg in soil sample SB-1 @ 15'. Chloride concentrations ranged from 5,100 mg/Kg in soil sample SB-1 @ 20' to 6,480 mg/Kg in soil sample SB-1 @ 10'. BTEX constituent concentrations in soil sample SB-1 @ 20' were less than the appropriate laboratory MDL.

Soil boring SB-2 was advanced approximately forty feet (40') to the south of soil boring SB-1, along the flow path of the release. The soil boring was advanced to a total depth of approximately sixty feet (60') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty feet (20'), thirty feet (30'), forty feet (40'), forty-five feet (45'), fifty-five feet (55'), and sixty feet (60') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. TPH concentrations were less than the laboratory MDL in all submitted soil samples, with the exception of soil sample SB-2 @ 5', which exhibited a TPH concentration of 122 mg/Kg. Chloride concentrations ranged from 144 mg/Kg in soil sample SB-2 @ 60' to 4,000 mg/Kg in soil sample SB-2 @ 30'.

Soil boring SB-3 was advanced approximately ten feet (10') to the west of soil boring SB-1, outside the containment area of the battery. The soil boring was advanced to a total depth of

approximately thirty-five feet (35') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty feet (20'), thirty feet (30'), and thirty-five feet (35') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 176 mg/Kg in soil sample SB-3 @ 35' to 1,960 mg/Kg in soil sample SB-3 @ 5'.

Soil boring SB-4 was advanced approximately eight feet (8') to the west of soil boring SB-2, outside the containment area of the battery. The soil boring was advanced to a total depth of approximately forty-five feet (45') bgs. Soil samples collected at drilling depths of five feet (5'), ten feet (10'), twenty-five feet (25'), forty feet (40'), and forty-five feet (45') bgs were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples. Chloride concentrations ranged from 16.0 mg/Kg in soil samples SB-4 @ 5' and SB-4 @ 25' to 160 mg/Kg in soil sample SB-4 @ 45'.

Based on laboratory analytical results from samples collected from the four (4) soil borings, it was determined that contamination did not impact groundwater at the site.

On June 13, 2012, a representative of Basin Environmental met with a representative of the NMOCD Hobbs District Office to request provisional closure of the Hat Mesa State 31-32 Battery release site. Since laboratory analytical results indicated contamination did not impact groundwater, it was requested that the site be closed without installing monitor wells. Due to safety and environmental concerns, and to preserve the structural integrity of the five (5) on-site storage tanks, it was further requested to leave soil exhibiting chloride concentrations above the RRAL established for the site in-situ. The requests were approved by the NMOCD representative, with the caveat that soil exhibiting chloride concentrations above the RRAL would be remediated following decommission and/or abandonment of the currently active tank battery.

From July 2 through July 10, 2012, a new containment area was constructed around the Hat Mesa State 31-32 Battery, which includes steel perimeter walls extending approximately two feet (2') above ground surface. A felt liner was installed in the floor of the new containment area, and the floor and perimeter walls of the containment area were coated with an impermeable, spray-on polyurethane liner.

On July 13, 2012, the stockpiled material was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035) for disposal by Republic Trucking of Carlsbad, New Mexico.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories in Odessa, Texas, for BTEX, TPH, and/or chloride analyses using the methods described below:

6.0 LIMITATIONS

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

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

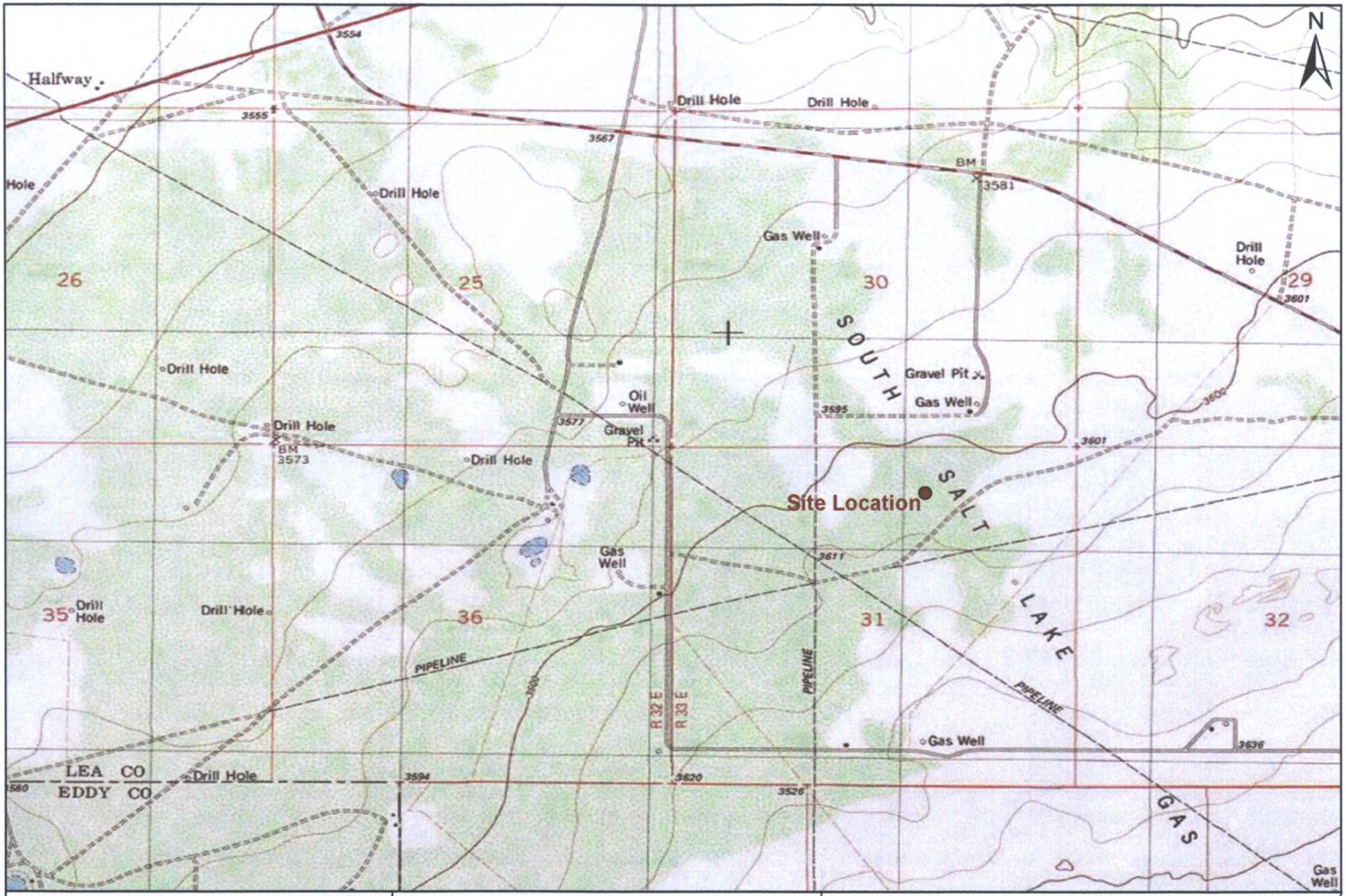
7.0 DISTRIBUTION:

Copy 1: Geoffrey Leking
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240
GeoffreyR.Leking@state.nm.us

Copy 2: William Sonnamaker
New Mexico State Land Office
2702-D N. Grimes
Hobbs, NM 88240

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



1,000500 0 1,000 2,000

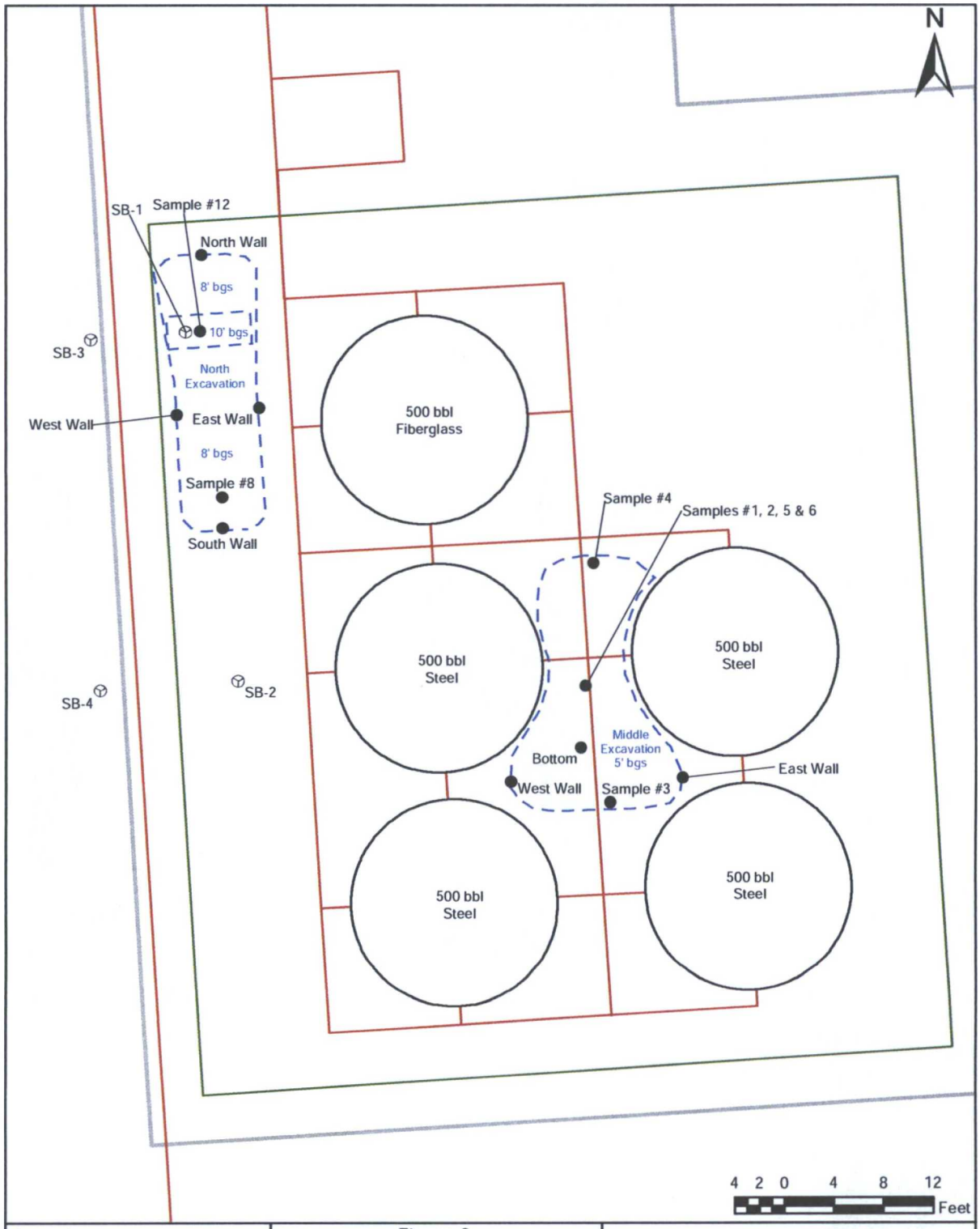
Distance in Feet

Figure 1
Site Location Map
BOPCO, LP
Hat Mesa State 31-32 Battery
Lea County, New Mexico
NMOCD Ref. #: 1RP-5-12-2812

Basin Environmental Service Technologies
Effective Solutions

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

Drawn By: BJA	Checked By: BRB
May 21, 2012	Scale: 1" = 2000'



Legend:
- Excavation Extent
- Pipeline
- Earthen Berm
- Steel Berm
- Sample Location
- Soil Boring

Figure 2
Site & Sample Location Map
BOPCO, LP
Hat Mesa State 31-32 Battery
Lea County, New Mexico
NMOCD Ref. #: 1RP-5-12-2812

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

Drawn By: BJA	Checked By: BRB
July 26, 2012	Scale: 1" = 12'

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP
HAT MESA STATE 31-32 BATTERY
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #1RP-5-12-2812

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH	E 300
				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)	C_6-C_{35} (mg/Kg)	CHLORIDE (mg/Kg)
Sample #1	2'	4/26/2012	In-Situ	-	-	-	-	-	1,510	12,700	2,250	16,460	80.0
Sample #2	4'	5/3/2012	In-Situ	-	-	-	-	-	1,390	13,300	2,860	17,550	-
Sample #3	3'	5/3/2012	In-Situ	-	-	-	-	-	<10.0	311	94.5	406	-
Sample #4	3'	5/3/2012	In-Situ	<0.050	<0.050	0.353	0.664	1.017	75.5	1,700	292	2,068	-
Sample #5	6'	5/3/2012	In-Situ	-	-	-	-	-	<10.0	22.7	16.1	38.8	-
Sample #6	8'	5/3/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	80.0
Sample #8	1'	5/3/2012	In-Situ	<0.050	<0.050	0.547	<0.150	0.547	<200	4,180	1,650	5,830	3,480
Sample #12	10'	5/3/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	9,600
Berm Material	N/A	5/3/2012	Excavated	<0.050	<0.050	<0.050	<0.150	<0.150	<50.0	1,190	533	1,723	1,070
North Excavation North Wall	6'	5/4/2012	In-Situ	<0.050	<0.050	0.297	0.888	1.19	69.8	613	140	823	19,600
North Excavation South Wall	6'	5/4/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	2,280
North Excavation East Wall	6'	5/4/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	13.2	13.2	12,600
North Excavation West Wall	6'	5/4/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	1,550
Middle Excavation East Wall	3.5'	5/4/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	-
Middle Excavation West Wall	3.5'	5/4/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<50.0	1,320	390	1,710	-
Middle Excavation Bottom	5'	5/4/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	-
SB-1 @ 10'	10'	5/25/2012	In-Situ	-	-	-	-	-	<50.0	558	208	766	6,480
SB-1 @ 15'	15'	5/25/2012	In-Situ	-	-	-	-	-	<50.0	643	246	889	-
SB-1 @ 20'	20'	5/25/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<50.0	536	224	760	5,100
SB-2 @ 5'	5'	5/25/2012	In-Situ	-	-	-	-	-	<10.0	71.8	49.7	122	576
SB-2 @ 10'	10'	5/25/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	320
SB-2 @ 20'	20'	5/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	656
SB-2 @ 30'	30'	5/25/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	4,000
SB-2 @ 40'	40'	5/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	3,240
SB-2 @ 45'	45'	5/25/2012	In-Situ	-	-	-	-	-	-	-	-	-	2,000
SB-2 @ 55'	55'	5/25/2012	In-Situ	-	-	-	-	-	-	-	-	-	304
SB-2 @ 60'	60'	5/25/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	144
SB-3 @ 5'	5'	5/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	1,960
SB-3 @ 10'	10'	5/25/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	1,180
SB-3 @ 20'	20'	5/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	496
SB-3 @ 30'	30'	5/25/2012	In-Situ	-	-	-	-	-	-	-	-	-	208
SB-3 @ 35'	35'	5/25/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	176

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP
HAT MESA STATE 31-32 BATTERY
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #1RP-5-12-2812

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			TOTAL TPH C_6-C_{35} (mg/Kg)	E 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)		CHLORIDE (mg/Kg)
SB-4 @ 5'	5'	5/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	16.0
SB-4 @ 10'	10'	5/25/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	32.0
SB-4 @ 25'	25'	5/25/2012	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	16.0
SB-4 @ 40'	40'	5/25/2012	In-Situ	-	-	-	-	-	-	-	-	-	48.0
SB-4 @ 45'	45'	5/25/2012	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	<10.0	<10.0	<10.0	160
NMOCD Standard				**10**				**50**				**1,000**	**500**

- = Not analyzed.

Hat Mesa State 31-32 Battery - Release Point (looking north)

Hat Mesa State 31-32 Battery - Release Site

Hat Mesa State 31-32 Battery - Release Site

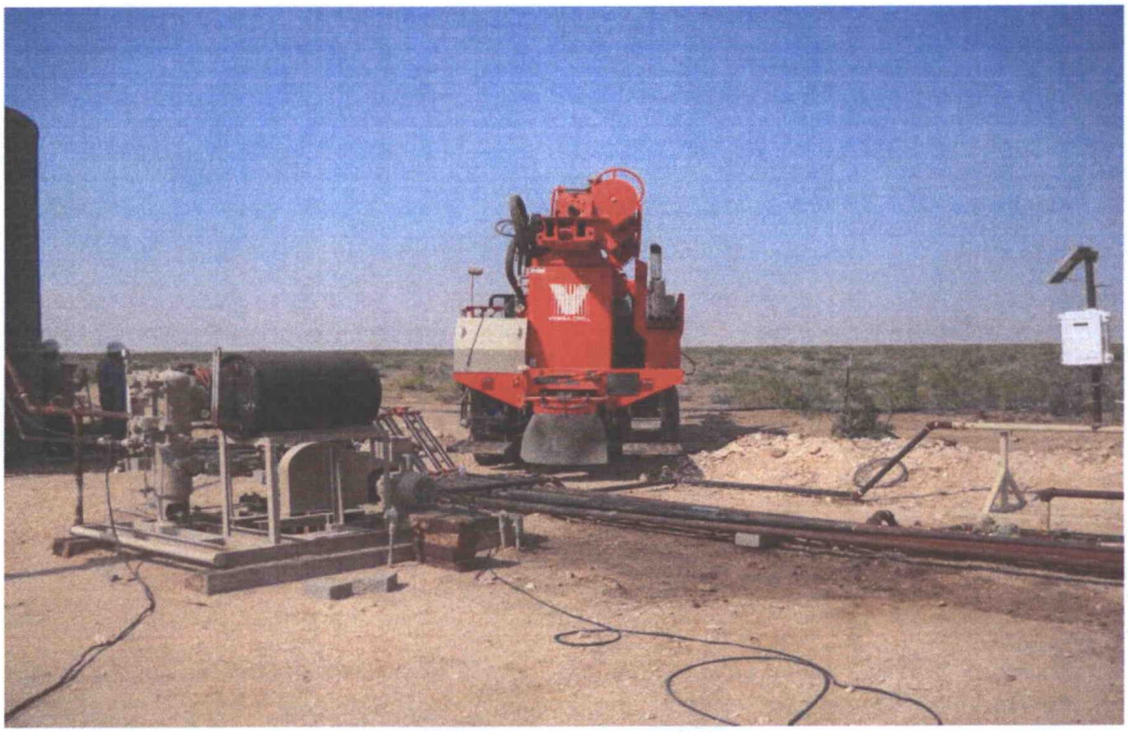
Hat Mesa State 31-32 Battery - Release Site

Hat Mesa State 31-32 Battery - North Excavation (looking north-northeast)

Hat Mesa State 31-32 Battery - North Excavation

Hat Mesa State 31-32 Battery - North Excavation (following backfill, looking north)

Hat Mesa State 31-32 Battery - Middle Excavation (following backfill)



Hat Mesa State 31-32 Battery - Preparation for Advancement of Soil Boring SB-1

Hat Mesa State 31-32 Battery - Advancement of Soil Boring SB-2

Hat Mesa State 31-32 Battery - Following Installation of Titan Liner (looking soutwest)

Hat Mesa State 31-32 Battery - North Excavation (following liner installation, looking east)

Hat Mesa State 31-32 Battery - Following Liner Installation (looking southeast)

Hat Mesa State 31-32 Battery - Middle Excavation (following liner installation)

Soil Boring SB-1

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0						
5				Moderate	None	0' - 11' - Backfill; red fine sand
10		(>2,500)	(24.7)	Moderate	None	
15		(>2,500)	(50.0)	Moderate	None	11' - 20' - Tan fine sand
20		(4,288)	(46.8)	Slight	None	

Boring SB-1

Date Drilled: May 25, 2012
Thickness of Bentonite Seal: 20 Ft
Depth of Exploratory Boring: 20 Ft bgs
Depth to Groundwater: _____
Ground Water Elevation: _____

▼ Indicates the PSH level measured on _____
▼ Indicates the groundwater level measured on _____
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1.) The soil boring was advanced on date using air rotary drilling techniques.
2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3.) Borehole collapsed approximately twenty feet (20') below ground surface.

Soil Boring SB-1

BOPCO, LP
Hat Mesa State 31-32 Battery
Lea County, New Mexico

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

Prep By: BJA	Checked By: BRB
June 21, 2012	

Soil Boring SB-2

Depth Below Ground Surface	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0					
5		1.7	Slight	None	0' - 6' - Tan to brown fine sand; sandstone
10		0.6	None	None	6' - 14' - Red fine sand; sandstone
15	1,580	0.4	None	None	
20			None	None	14' - 21' - Tan fine sand; sandstone
25	1,580		None	None	21' - 23' - Tan fine sand; sandstone; gravel 23' - 24' - Red fine sand; sandstone
30	>3,072		None	None	
35	2,580		None	None	24' - 42' - Red silty sand; clay
40	2,580		None	None	
45	1,772		None	None	42' - 48' - Tan fine sand; sandstone
50	644		None	None	
55	366		None	None	48' - 57' - Red silty clay
60	172		None	None	57' - 60' - Red fine sand; gravel

Boring SB-2

Date Drilled: May 25, 2012
Thickness of Bentonite Seal: 60 Ft
Depth of Exploratory Boring: 60 Ft bgs
Depth to Groundwater: _____
Ground Water Elevation: _____

▼ Indicates the PSH level measured on _____
▼ Indicates the groundwater level measured on _____
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1.) The soil boring was advanced on date using air rotary drilling techniques.
2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-2

BOPCO, LP
Hat Mesa State 31-32 Battery
Lea County, New Mexico

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

Prep By: BJA	Checked By: BRB
June 21, 2012	

Soil Boring SB-3

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0						
5			0.9	None	None	0' - 9' - Tan fine sand; caliche; sandstone
10			1.0	None	None	
15		496	1.7	None	None	9' - 14' - Red fine sand; sandstone
20		409		None	None	
25		264		None	None	14' - 35' - Tan fine sand; sandstone
30		200		None	None	
35		172		None	None	

Boring SB-3

Date Drilled May 25, 2012
Thickness of Bentonite Seal 35 Ft
Depth of Exploratory Boring 35 Ft bgs
Depth to Groundwater
Ground Water Elevation

▼ Indicates the PSH level measured on
▼ Indicates the groundwater level measured on
⬭ Indicates samples selected for Laboratory Analysis.
PID Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1.) The soil boring was advanced on date using air rotary drilling techniques.
2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-3

BOPCO, LP
Hat Mesa State 31-32 Battery
Lea County, New Mexico

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

Prep By: BJA	Checked By: BRB
June 21, 2012	

Soil Boring SB-4

Depth Below Ground Surface	Soil Column	Chloride Field Test	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0						
5			1.0	None	None	0' - 7' - Tan fine sand; caliche; sandstone
10			0.7	None	None	
15		<120	0.2	None	None	
20		<120		None	None	
25		<120		None	None	7' - 38' - Red fine sand; sandstone
30				None	None	
35		160		None	None	
40		200		None	None	
45		160		None	None	38' - 45' - Red silty sand; silty clay

Boring SB-4

Date Drilled: May 25, 2012
Thickness of Bentonite Seal: 45 Ft
Depth of Exploratory Boring: 45 Ft bgs
Depth to Groundwater: _____
Ground Water Elevation: _____

- Indicates the PSH level measured on _____
- Indicates the groundwater level measured on _____
- Indicates samples selected for Laboratory Analysis.
- PID: Head-space reading in ppm obtained with a photo-ionization detector.

Completion Notes

1.) The soil boring was advanced on date using air rotary drilling techniques.
2.) The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-4

BOPCO, LP
Hat Mesa State 31-32 Battery
Lea County, New Mexico

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

Prep By: BJA	Checked By: BRB
June 21, 2012	

CARDINAL Laboratories

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

May 01, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA

Enclosed are the results of analyses for samples received by the laboratory on 04/30/12 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/30/2012	Sampling Date:	04/26/2012
Reported:	05/01/2012	Sampling Type:	Soil
Project Name:	HAT MESA	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #1 2' (H200976-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	04/30/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**1510**	200	05/01/2012	ND	195	97.5	200	1.00	
DRO >C10-C28	**12700**	200	05/01/2012	ND	208	104	200	1.79	
EXT DRO >C28-C35	**2250**	200	05/01/2012	ND					

Surrogate: 1-Chlorooctane	*170 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*76.4 %*	*57.6-158*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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**	
Project Manager:	Ben J. Arguijo	P.O. #:	
Address:	P.O. Box 301	Company:	BOPCO, LP
City:	Lovington State: NM Zip: 88260	Attn:	Tony Savoie
Phone #:	(575)396-2378 Fax #: (575)396-1429	Address:	522 w. Mermod
Project #:	Project Owner: BOPCO, LP	City:	Carlsbad
Project Name:	HAT MESA	State:	NM Zip: 88220
Project Location:	Lea, N.M.	Phone #:	(432)556-8730
Sampler Name:	Jody Walters	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME	8015M	Chlorides
H26047l6 - 1	Sample #1 2'	G	1			X					X		4-26-12	9:00	X	X

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 the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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.

Relinquished By:	Date: 4.30.12	Received By:	Phone Result:	☐ Yes ☐ No	Add'l Phone #:
	Time: 0445		Fax Result:	☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	Date: 4.30.12	Received By:	REMARKS:		
	Time: 0825		Please email results to pm@basinenv.com & TAsavoie@BassPet.com		
Delivered By: (Circle One)		Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	4° C	Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	(Initials)		

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

#26

CARDINAL Laboratories

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

May 11, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA 31-32

Enclosed are the results of analyses for samples received by the laboratory on 05/04/12 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/04/2012	Sampling Date:	05/03/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #2 4' (H201026-01)

TPH 8015M **mg/kg** **Analyzed By: MS** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**1390**	200	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	**13300**	200	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	**2860**	200	05/09/2012	ND					

Surrogate: 1-Chlorooctane	*179 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*434 %*	*57.6-158*

Sample ID: SAMPLE #3 3' (H201026-02)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	**311**	10.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	**94.5**	10.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane	*91.8 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*103 %*	*57.6-158*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/04/2012	Sampling Date:	05/03/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #4 3' (H201026-03)

BTEX 8021B mg/kg **Analyzed By: ZZZ** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2012	ND	1.98	98.9	2.00	1.92	
Toluene*	<0.050	0.050	05/11/2012	ND	2.17	108	2.00	4.50	
Ethylbenzene*	**0.353**	0.050	05/11/2012	ND	2.19	110	2.00	5.41	
Total Xylenes*	**0.664**	0.150	05/11/2012	ND	6.98	116	6.00	7.19	

Surrogate: 4-Bromofluorobenzene (PID *164 %* *64.4-134*

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**75.5**	50.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	**1700**	50.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	**292**	50.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane *110 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *108 %* *57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/04/2012	Sampling Date:	05/03/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #5 6' (H201026-04)

TPH 8015M **mg/kg** **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	**22.7**	10.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	**16.1**	10.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane	*80.5 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*89.1 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/04/2012	Sampling Date:	05/03/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #6 8' (H201026-05)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2012	ND	1.98	98.9	2.00	1.92	
Toluene*	<0.050	0.050	05/11/2012	ND	2.17	108	2.00	4.50	
Ethylbenzene*	<0.050	0.050	05/11/2012	ND	2.19	110	2.00	5.41	
Total Xylenes*	<0.150	0.150	05/11/2012	ND	6.98	116	6.00	7.19	

Surrogate: 4-Bromofluorobenzene (PID *114 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	05/07/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane *77.2 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *86.3 %* *57.6-158*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/04/2012	Sampling Date:	05/03/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #8 1' (H201026-06)

BTEX 8021B mg/kg **Analyzed By: ZZZ** S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2012	ND	1.98	98.9	2.00	1.92	
Toluene*	<0.050	0.050	05/11/2012	ND	2.17	108	2.00	4.50	
Ethylbenzene*	**0.547**	0.050	05/11/2012	ND	2.19	110	2.00	5.41	
Total Xylenes*	<0.150	0.150	05/11/2012	ND	6.98	116	6.00	7.19	

Surrogate: 4-Bromofluorobenzene (PID *144 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3480**	16.0	05/07/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS** S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	**4180**	200	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	**1650**	200	05/09/2012	ND					

Surrogate: 1-Chlorooctane *97.0 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *315 %* *57.6-158*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/04/2012	Sampling Date:	05/03/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SAMPLE #12 10' (H201026-07)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2012	ND	1.98	98.9	2.00	1.92	
Toluene*	<0.050	0.050	05/11/2012	ND	2.17	108	2.00	4.50	
Ethylbenzene*	<0.050	0.050	05/11/2012	ND	2.19	110	2.00	5.41	
Total Xylenes*	<0.150	0.150	05/11/2012	ND	6.98	116	6.00	7.19	

Surrogate: 4-Bromofluorobenzene (PID *113 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**9600**	16.0	05/07/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane *84.7 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *97.5 %* *57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/04/2012	Sampling Date:	05/03/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BERM MATERIAL (H201026-08)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2012	ND	1.98	98.9	2.00	1.92	
Toluene*	<0.050	0.050	05/11/2012	ND	2.17	108	2.00	4.50	
Ethylbenzene*	<0.050	0.050	05/11/2012	ND	2.19	110	2.00	5.41	
Total Xylenes*	<0.150	0.150	05/11/2012	ND	6.98	116	6.00	7.19	

Surrogate: 4-Bromofluorobenzene (PID *115 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1070**	16.0	05/07/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	**1190**	50.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	**553**	50.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane *87.7 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *118 %* *57.6-158*

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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**	
Project Manager:	Ben J. Arguijo	P.O. #:	
Address:	P.O. Box 301	Company:	BOPCO, LP
City:	Lovington State: NM Zip: 88260	Attn:	Tony Savoie
Phone #:	(575)396-2378 Fax #: (575)396-1429	Address:	522 w. Mermod
Project #:	Project Owner: BOPCO, LP	City:	Carlsbad
Project Name:	HAT MESA 31-32	State: NM	Zip: 88220
Project Location:	Lea NM	Phone #:	(432)556-8730
Sampler Name:	Jody Walters	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	PRESERV: ACID/BASE	ICE / COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8015M	Chlorides	BTEX
H201026																	
1	SAmple # 2 4'	G	1			X					X		5-3-12	13:00	X		
2	Sample # 3 3'	G	1			X					X		5-3-12	13:05	X		
3	Sample # 4 3'	G	1			X					X		5-3-12	13:10	X		X
4	Sample # 5 6'	G	1			X					X		5-3-12	13:15	X		
5	Sample # 6 8'	G	1			X					X		5-3-12	13:18	X	X	X
6	Sample # 8 1'	G	1			X					X		5-3-12	13:25	X	X	X
7	Sample #12 10'	G	1			X					X		5-3-12	14:00	X	X	X
8	Berm Material	C	1			X					X		5-3-12	14:10	X	X	X

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 the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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.

Relinquished By:	Date: 5/3/12 Time: 17:35	Received By:	
Relinquished By:	Date: 5/4/12 Time: 0700	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	3° C	Sample Condition: Cool: Yes / No; Intact: Yes / No	CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

Please email results to pm@basinenv.com
& TAsavoie@BassPet.com

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

5/5/12 Eddie Mendoza

CARDINAL Laboratories

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

May 11, 2012

TONY SAVOIE

BOPCO

P. O. BOX 1019

KERMIT, TX 79745

RE: HAT MESA 31-32

Enclosed are the results of analyses for samples received by the laboratory on 05/07/12 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BOPCO
TONY SAVOIE
P. O. BOX 1019
KERMIT TX, 79745
Fax To: (432) 687-4722

Received:	05/07/2012	Sampling Date:	05/04/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH EXC E WALL (H201031-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**12600**	16.0	05/07/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	**13.2**	10.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane	*74.4 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*84.5 %*	*57.6-158*

Sample ID: NORTH EXC W WALL (H201031-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1550**	16.0	05/07/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane	*85.4 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*99.5 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BOPCO
TONY SAVOIE
P. O. BOX 1019
KERMIT TX, 79745
Fax To: (432) 687-4722

Received:	05/07/2012	Sampling Date:	05/04/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH EXC N WALL (H201031-03)

BTEX 8021B mg/kg **Analyzed By: ZZZ** S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2012	ND	1.98	98.9	2.00	1.92	
Toluene*	<0.050	0.050	05/11/2012	ND	2.17	108	2.00	4.50	
Ethylbenzene*	**0.297**	0.050	05/11/2012	ND	2.19	110	2.00	5.41	
Total Xylenes*	**0.888**	0.150	05/11/2012	ND	6.98	116	6.00	7.19	

Surrogate: 4-Bromofluorobenzene (PID *149 %* *64.4-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**19600**	16.0	05/07/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**69.8**	50.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	**613**	50.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	**140**	50.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane *80.4 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *88.1 %* *57.6-158*

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BOPCO
TONY SAVOIE
P. O. BOX 1019
KERMIT TX, 79745
Fax To: (432) 687-4722

Received:	05/07/2012	Sampling Date:	05/04/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH EXC S WALL (H201031-04)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2280**	16.0	05/07/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	184	92.0	200	3.04	
EXT DRO >C28-C35	<10.0	10.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane	*86.1 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*100 %*	*57.6-158*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BOPCO
TONY SAVOIE
P. O. BOX 1019
KERMIT TX, 79745
Fax To: (432) 687-4722

Received:	05/07/2012	Sampling Date:	05/04/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE EXC W WALL (H201031-05)

BTEX 8021B mg/kg **Analyzed By: ZZZ** S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/11/2012	ND	1.98	98.9	2.00	1.92	
Toluene*	<0.050	0.050	05/11/2012	ND	2.17	108	2.00	4.50	
Ethylbenzene*	<0.050	0.050	05/11/2012	ND	2.19	110	2.00	5.41	
Total Xylenes*	<0.150	0.150	05/11/2012	ND	6.98	116	6.00	7.19	

Surrogate: 4-Bromofluorobenzene (PID *154 %* *64.4-134*

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/09/2012	ND	189	94.3	200	2.57	
DRO >C10-C28	**1320**	50.0	05/09/2012	ND	180	90.2	200	1.12	
EXT DRO >C28-C35	**390**	50.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane *89.9 %* *55.5-154*

Surrogate: 1-Chlorooctadecane *140 %* *57.6-158*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

BOPCO
TONY SAVOIE
P. O. BOX 1019
KERMIT TX, 79745
Fax To: (432) 687-4722

Received:	05/07/2012	Sampling Date:	05/04/2012
Reported:	05/11/2012	Sampling Type:	Soil
Project Name:	HAT MESA 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE EXC E WALL (H201031-06)

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	189	94.3	200	2.57	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	180	90.2	200	1.12	
EXT DRO >C28-C35	<10.0	10.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane	*98.9 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*117 %*	*57.6-158*

Sample ID: MIDDLE EXC BOTTOM (H201031-07)

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	189	94.3	200	2.57	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	180	90.2	200	1.12	
EXT DRO >C28-C35	<10.0	10.0	05/09/2012	ND					

Surrogate: 1-Chlorooctane	*84.8 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*103 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Bopco LP
Project Manager:	Ben Arguijo
Address:	PO Box 30?
City:	Lovington
State:	NM
Zip:	88260
Phone #:	
Fax #:	
Project #:	
Project Owner:	BOPCO LP
Project Name:	Hat Mesa 31-32
Project Location:	West of Eunice
Sampler Name:	Eloy Ruiz

BILL TO

P.O. #:	
Company:	Bopco
Attn:	
Address:	
City:	
State:	
Zip:	
Phone #:	
Fax #:	

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	PRESERV: ACID/BASE	ICE / COOL	OTHER	SAMPLING DATE	TIME	ANALYSIS REQUEST: 8015 M	Chlorides	BTEX
H201031																	
1	North Excavation East Wall	✓				✓					✓		3/14/12	10:38	✓	✓	
2	North Excavation South Wall	✓				✓					✓		✓	10:14	✓	✓	
3	North Excavation North Wall	✓				✓					✓		✓	10:15	✓	✓	✓
4	North Excavation South Wall	✓				✓					✓		✓	10:16	✓	✓	
5	Middle Excavation West Wall	✓				✓					✓		✓	10:32	✓		✓
6	Middle Excavation East Wall	✓				✓					✓		✓	10:30	✓		
7	Middle Excavation Bottom	✓				✓					✓		✓	10:34	✓		

Relinquished By: Eloy Ruiz	Date: 3/14/12 Time: 11:00	Received By: Tony Savoie
Relinquished By: Tony Savoie	Date: 3/17/12 Time: 09:20	Received By: Jodi Henson
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2.5°C	Sample Condition: Cool ☐ Yes ☐ No; Intact ☑ Yes ☐ No — CHECKED BY: (Initials) JH

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

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

#26

CARDINAL Laboratories

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

June 01, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA STATE 31-32

Enclosed are the results of analyses for samples received by the laboratory on 05/30/12 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/01/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB -1 @ 10' (H201212-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6480**	16.0	05/31/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	**558**	50.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	**208**	50.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane	*87.8 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*118 %*	*63.6-154*

Sample ID: SB -1 @ 15' (H201212-02)

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	**643**	50.0	05/31/2012	ND	184	92.0	200	3.17	
EXT DRO >C28-C35	**246**	50.0	05/31/2012	ND					

Surrogate: 1-Chlorooctane	*85.8 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*118 %*	*63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/01/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB -1 @ 20' (H201212-03)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	<0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	

Surrogate: 4-Bromofluorobenzene (PID *100 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5100**	16.0	05/31/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/31/2012	ND	189	94.7	200	0.473	
DRO >C10-C28	**536**	50.0	05/31/2012	ND	184	92.0	200	3.17	
EXT DRO >C28-C35	**224**	50.0	05/31/2012	ND					

Surrogate: 1-Chlorooctane *78.9 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *106 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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**	
Project Manager:	Ben J. Arguijo	P.O. #:	
Address:	P.O. Box 301	Company:	BOPCO, LP
City:	Lovington State: NM Zip: 88260	Attn:	Tony Savoie
Phone #:	(575) 396-2378 Fax #: (575) 396-1429	Address:	522 W. Mermod
Project #:	Project Owner: BOPCO, LP	City:	Carlsbad
Project Name:	Hat Mesa State 31-32 Battery	State: NM Zip:	88220
Project Location:	Lea Co., NM	Phone #:	(432) 556-8730
Sampler Name:		Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	8015 M	Chloride	BTEX									
H201212																										
1	SB-1 @ 10'	G	1			X					X		5/25/12	1000	X	X										
2	SB-1 @ 15'					X								1005	X											
3	SB-1 @ 20'	↓	↓			↓					↓		↓	1010	X	X	X									

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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.

Relinquished By:	Date: 5/29/12	Received By:	
	Time: 1015		
Relinquished By:	Date: 5.30.12	Received By:	Jodi Henson
	Time: 11:00		
Delivered By: (Circle One)	Sample Condition: Cool: Yes / No; Intact: Yes / No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	2° C		

Phone Result:	☐ Yes	☐ No	Add'l Phone #:
Fax Result:	☐ Yes	☐ No	Add'l Fax #:
REMARKS:			

Please email results to pm@basinenv.com
& TAsavoie@BassPet.com

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

#26

CARDINAL Laboratories

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

June 06, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA STATE 31-32

Enclosed are the results of analyses for samples received by the laboratory on 05/30/12 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Hope S. Moreno

Hope Moreno

Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 2 @ 5' (H201209-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	05/31/2012	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	**71.8**	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	**49.7**	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane	*86.2 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*101 %*	*63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 2 @ 10' (H201209-02)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2012	ND	2.02	101	2.00	0.834	
Toluene*	<0.050	0.050	05/31/2012	ND	1.85	92.3	2.00	1.28	
Ethylbenzene*	<0.050	0.050	05/31/2012	ND	1.72	85.9	2.00	0.312	
Total Xylenes*	<0.150	0.150	05/31/2012	ND	5.19	86.6	6.00	0.561	

Surrogate: 4-Bromofluorobenzene (PID *101 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	05/31/2012	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane *82.9 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *96.6 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 2 @ 20' (H201209-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**656**	16.0	05/31/2012	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane	*79.8 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*91.2 %*	*63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 2 @ 30' (H201209-04)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2012	ND	2.02	101	2.00	0.834	
Toluene*	<0.050	0.050	05/31/2012	ND	1.85	92.3	2.00	1.28	
Ethylbenzene*	<0.050	0.050	05/31/2012	ND	1.72	85.9	2.00	0.312	
Total Xylenes*	<0.150	0.150	05/31/2012	ND	5.19	86.6	6.00	0.561	

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4000**	16.0	06/06/2012	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane *82.4 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *96.3 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 2 @ 40' (H201209-05)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3240**	16.0	05/31/2012	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane	*78.7 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*86.6 %*	*63.6-154*

Sample ID: SB - 2 @ 55' (H201209-06)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	05/31/2012	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 2 @ 60' (H201209-07)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2012	ND	2.02	101	2.00	0.834	
Toluene*	<0.050	0.050	05/31/2012	ND	1.85	92.3	2.00	1.28	
Ethylbenzene*	<0.050	0.050	05/31/2012	ND	1.72	85.9	2.00	0.312	
Total Xylenes*	<0.150	0.150	05/31/2012	ND	5.19	86.6	6.00	0.561	

Surrogate: 4-Bromofluorobenzene (PID *101 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	05/31/2012	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane *83.8 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *97.0 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

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 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

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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**	
Project Manager:	Ben J. Arguijo	P.O. #:	
Address:	P.O. Box 301	Company:	BOPCO, LP
City:	Lovington State: NM Zip: 88260	Attn:	Tony Savoie
Phone #:	(575)396-2378 Fax #: (575)396-1429	Address:	522 W. Mermod
Project #:	Project Owner: BOPCO, LP	City:	Carlsbad
Project Name:	Hat Mesa State 31-32 Battery	State: NM	Zip: 88220
Project Location:	Lea Co., NM	Phone #:	(432)556-8730
Sampler Name:		Fax #:	

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	8015 M	Chloride	BTEX									
H201209																										
1	SB-2 @ 5'	X	1			X					X		5/25/12	1015	X	X										
2	SB-2 @ 10'													1020	X	X	X									
3	SB-2 @ 20'													1030	X	X										
4	SB-2 @ 30'													1040	X		X									
5	SB-2 @ 40'													1050	X	X										
6	SB-2 @ 55'													1105		X										
7	SB-2 @ 60'													1110	X	X	X									

Relinquished By:	Date: 5/29/12 Time: 1815	Received By:	
Relinquished By:	Date: 5.30.12 Time: 11:00	Received By:	Jodi Henson
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2°c	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials)

Phone Result:	☐ Yes ☐ No	Add'l Phone #:	
Fax Result:	☐ Yes ☐ No	Add'l Fax #:	
REMARKS:			

Please email results to pm@basinenv.com
& TAsavoie@BassPet.com

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

#26

CARDINAL Laboratories

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

June 01, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA STATE 31-32

Enclosed are the results of analyses for samples received by the laboratory on 05/30/12 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/01/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 3 @ 5' (H201210-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1960**	16.0	05/31/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane	*83.6 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*96.8 %*	*63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/01/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 3 @ 10' (H201210-02)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2012	ND	2.02	101	2.00	0.834	
Toluene*	<0.050	0.050	05/31/2012	ND	1.85	92.3	2.00	1.28	
Ethylbenzene*	<0.050	0.050	05/31/2012	ND	1.72	85.9	2.00	0.312	
Total Xylenes*	<0.150	0.150	05/31/2012	ND	5.19	86.6	6.00	0.561	

Surrogate: 4-Bromofluorobenzene (PID *100 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1180**	16.0	05/31/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane *84.5 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *95.8 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/01/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 3 @ 20' (H201210-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**496**	16.0	05/31/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane	*86.5 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*100 %*	*63.6-154*

Sample ID: SB - 3 @ 30' (H201210-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	05/31/2012	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/01/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 3 @ 35' (H201210-05)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2012	ND	2.02	101	2.00	0.834	
Toluene*	<0.050	0.050	05/31/2012	ND	1.85	92.3	2.00	1.28	
Ethylbenzene*	<0.050	0.050	05/31/2012	ND	1.72	85.9	2.00	0.312	
Total Xylenes*	<0.150	0.150	05/31/2012	ND	5.19	86.6	6.00	0.561	

Surrogate: 4-Bromofluorobenzene (PID *100 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	05/31/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane *82.4 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *95.5 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

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 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

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

Company Name: Basin Environmental Service Technologies, LLC	**BILL TO**
Project Manager: Ben J. Arguijo	P.O. #:
Address: P.O. Box 301	Company: BOPCO, LP
City: Lovington State: NM Zip: 88260	Attn: Tony Savoie
Phone #: (575)396-2378 Fax #: (575)396-1429	Address: 522 W. Mermod
Project #: Project Owner: BOPCO, LP	City: Carlsbad
Project Name: Hat Mesa State 31-32 Battery	State: NM Zip: 88220
Project Location: Lea Co., NM	Phone #: (432)556-8730
Sampler Name:	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	8015M	Chloride	STEX										
H20120																											
1	SB-3 @ 5'	G	1			X					X		5/25/12	1230	X	X											
2	SB-3 @ 10'	↓	↓			↓					↓			1235	X	X	X										
3	SB-3 @ 20'													1245	X	X											
4	SB-3 @ 30'													1255		X											
5	SB-3 @ 35'	↓	↓			↓					↓		↓	1300	X	X	X										

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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.

Relinquished By:	Date: 5/29/12	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1815		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date: 5-30-12	Received By: Jodi Henson	REMARKS:
	Time: 1100		Please email results to pm@basinenv.com & TAsavoie@BassPet.com
Delivered By: (Circle One)	Sample Condition: Cool ☑ Yes ☐ No, Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	2°c		

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

#26

CARDINAL Laboratories

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

June 06, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA STATE 31-32

Enclosed are the results of analyses for samples received by the laboratory on 05/30/12 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Hope S. Moreno

Hope Moreno

Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 4 @ 5' (H201211-01)

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	06/06/2012	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane	*81.1 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*93.9 %*	*63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 4 @ 10' (H201211-02)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2012	ND	2.02	101	2.00	0.834	
Toluene*	<0.050	0.050	05/31/2012	ND	1.85	92.3	2.00	1.28	
Ethylbenzene*	<0.050	0.050	05/31/2012	ND	1.72	85.9	2.00	0.312	
Total Xylenes*	<0.150	0.150	05/31/2012	ND	5.19	86.6	6.00	0.561	

Surrogate: 4-Bromofluorobenzene (PID *101 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	05/31/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane *90.3 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *96.8 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 4 @ 25' (H201211-03)

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	05/31/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane	*85.4 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*97.0 %*	*63.6-154*

Sample ID: SB - 4 @ 40' (H201211-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	05/31/2012	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	05/30/2012	Sampling Date:	05/25/2012
Reported:	06/06/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 4 @ 45' (H201211-05)

BTEX 8021B mg/kg **Analyzed By: ZZZ**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2012	ND	2.08	104	2.00	5.71	
Toluene*	<0.050	0.050	06/01/2012	ND	1.90	94.9	2.00	4.96	
Ethylbenzene*	<0.050	0.050	06/01/2012	ND	1.80	89.9	2.00	5.46	
Total Xylenes*	<0.150	0.150	06/01/2012	ND	5.47	91.2	6.00	5.00	

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *89.4-126*

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	05/31/2012	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2012	ND	186	93.0	200	0.907	
DRO >C10-C28	<10.0	10.0	05/30/2012	ND	188	93.9	200	1.52	
EXT DRO >C28-C35	<10.0	10.0	05/30/2012	ND					

Surrogate: 1-Chlorooctane *86.9 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *94.8 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

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 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

Hope S. Moreno

Hope Moreno, Inorganic Technical Director

CARDINAL Laboratories

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**
Project Manager: Ben J. Arguijo	P.O. #:
Address: P.O. Box 301	Company: BOPCO, LP
City: Lovington State: NM Zip: 88260	Attn: Tony Savoie
Phone #: (575)396-2378 Fax #: (575)396-1429	Address: 522 W. Mermod
Project #: Project Owner: BOPCO, LP	City: Carlsbad
Project Name: Hat Mesa State 31-32 Battery	State: NM Zip: 88220
Project Location: Lea Co., NM	Phone #: (432)556-8730
Sampler Name:	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	TPH 8015M	Chloride	BTEX									
H20121 1	1 SB-4 @ 5'	G	1			X					X		5/25/12	1330	X											
2	SB-4 @ 10'													1335	X	X	X									
3	SB-4 @ 25'													1350	X	X										
4	SB-4 @ 40'													1405		X										
5	SB-4 @ 45'													1410	X	X	X									

Relinquished By:	Date: 5/31/12	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1815		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date: 5.30.12	Received By: Jodi Henson	REMARKS:
	Time: 7:00		Please email results to pm@basinenv.com & TAsavoie@BassPet.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)

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

#26

CARDINAL Laboratories

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

June 18, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: HAT MESA STATE 31-32

Enclosed are the results of analyses for samples received by the laboratory on 06/13/12 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/13/2012	Sampling Date:	05/25/2012
Reported:	06/18/2012	Sampling Type:	Soil
Project Name:	HAT MESA STATE 31-32	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB - 2 @ 45' (H201331-01)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2000**	16.0	06/18/2012	ND	432	108	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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 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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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**	
Project Manager:	Ben J. Arguijo	P.O. #:	
Address:	P.O. Box 301	Company:	BOPCO, LP
City:	Lovington State: NM Zip: 88260	Attn:	Tony Savoie
Phone #:	(575)396-2378 Fax #: (575)396-1429	Address:	522 W. Mermod
Project #:	Project Owner: BOPCO, LP	City:	Carlsbad
Project Name:	Hat Mesa State 31-32 Battery	State: NM	Zip: 88220
Project Location:	Lea Co., NM	Phone #:	(432)556-8730
Sampler Name:	Ben J. Arguijo	Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chloride
H20133															
-1	SS-2 @ 45'	X	1			X					X		5/25/12	1055	X

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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.

Relinquished By:	Date: 4/13/12 Time: 11:30	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4°c	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS:

Please email results to pm@basinenv.com
& TAsavoie@BassPet.com

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

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