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REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE REQUEST

**BOPCO, LP
POKER LAKE UNIT #162
Eddy County, New Mexico
Unit Letter "C" (NE/NW), Section 6, Township 24 South, Range 30 East
Latitude 32.252159° North, Longitude 103.923572° West
NMOCD Reference #: 2RP-2265**

Prepared For:

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

Prepared By:

**Basin Environmental Service Technologies, LLC
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October 2014

Ben J. Arguijo
Project Manager

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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 Poker Lake Unit (PLU) #162. The legal description of the release site is Unit Letter "C" (NE/NW), Section 6, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.252159° North latitude and 103.923572° West longitude. The property affected by the release is owned by the United States Department of the Interior – Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On April 20, 2014, BOPCO discovered a release had occurred at the PLU #162 well. A one-inch (1") high pressure hose connecting the flow line to the well failed at the coupling, resulting in a release of approximately four hundred barrels (400 bbls) of produced water.

The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office on April 20, 2014. The "Release Notification and Corrective Action" (Form C-141) indicated approximately four hundred barrels (400 bbls) of produced water were released, with no recovery. The section of hose was replaced during initial response activities.

According to the Form C-141, the release impacted an area of the well pad measuring approximately twenty-two thousand, five hundred square feet (22,500 ft²) and an area of adjacent pastureland measuring approximately fifteen thousand square feet (15,000 ft²).

Prior to commencement of remediation activities, a representative of the BLM was consulted in order to determine whether or not an archaeological survey of the affected area would be required. It was determined that no known or suspected archaeological sites would be encroached upon, and no archaeological survey was required.

The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 6, Township 24 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and sixty-five feet (165') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

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

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

NMOCD guidelines indicate the PLU #162 release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) – 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (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.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

Following initial response activities, on April 21, 2014, Basin Environmental commenced remediation activities at the release site. To facilitate remediation activities, the release site was divided into two (2) sections: Pasture Excavation and Pad Excavation. On April 21 and 22, 2014, a series of delineation trenches were advanced in the affected pastureland in the primary pooling area and along the flow path of the release to investigate the vertical and horizontal extent of impacted soil. Soil samples were field-screened using a chloride test kit, and a general outline of the Pasture Excavation was established.

On April 23, 2014, excavation of the Pasture Excavation commenced. Excavated soil was stockpiled on-site, pending final disposition.

On April 28, 2014, eight (8) confirmation soil samples (SP #1, SP #2a, SP #3, SP #4, SP #5, SP #6b, SP #7, and SP #8a) were collected from the sidewalls of the Pasture Excavation and submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride concentrations using Environmental Protection Agency (EPA) Method 4500 Cl-B. Soil samples S.P. #2a, S.P. #6b, and S.P. #8a were also analyzed for TPH and BTEX concentrations using EPA Methods SW-846 8015M and SW-846 8021b, respectively. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory method detection limit (MDL) in soil samples S.P. #2a, S.P. #3, S.P. #5, S.P. #6b, S.P. #7, and S.P. #8a to 1,120 mg/kg in soil sample S.P. #1. TPH and BTEX constituent concentrations in soil samples S.P. #2a, S.P. #6b, and S.P. #8a were less than the appropriate laboratory MDL. Soil sample locations are depicted in Figure #2, "Site & Sample Location Map". Laboratory analytical results are summarized in Table 1, "Concentrations of Benzene, BTEX, TPH & Chloride in Soil".

Review of laboratory analytical results indicated further excavation was required in the area represented by soil sample SP #1.

During the course of excavation activities, an area of deeper soil impact was discovered in the floor of the Pasture Excavation. From May 6 through May 9, 2014, a series of eight (8) delineation trenches (TT-12 through TT-19) were advanced in the floor the excavation to investigate the vertical extent of impacted soil. Delineation trenches TT-12 through TT-17 were advanced from east to west in the primary pooling area of the release, beginning with trench TT-12 in the eastern portion of the Pasture Excavation and ending with trench TT-16 in the western portion of the excavation. Delineation trenches TT-18 and TT-19 were advanced along the flow path of the

release, in the northern portion of the excavation. The delineation trenches were spaced approximately fifty feet (50') apart and were advanced in ten-foot (10') horizontal increments. The trenches were initially advanced to approximately five feet (5') bgs, and soil samples collected from the trench floors were field-screened with a chloride field test kit. Subsequent soil samples were collected at approximately two-foot (2') vertical increments. A selection of representative soil samples were submitted to the laboratory for confirmatory chloride, TPH, and/or BTEX analyses.

Delineation trench TT-12 was advanced north-to-south in the eastern floor of the Pasture Excavation. The trench ranged in depth from approximately five feet (5') to approximately nineteen feet (19') bgs. Five (5) confirmation soil samples (TT-12 SP #1b, TT-12 SP #2, TT-12 SP #2d, TT-12 SP #2f, and TT-12 SP #3) were submitted to the lab for analysis of chloride, TPH, and/or BTEX concentrations. Laboratory analytical results indicated chloride concentrations ranged from 48.0 mg/kg in soil sample TT-12 SP #1b to 9,730 mg/kg in soil sample TT-12 SP #2d. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-13 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-12. The trench ranged in depth from approximately five feet (5') to approximately fifteen feet (15') bgs. Five (5) confirmation soil samples (TT-13 SP #1b, TT-13 SP #2, TT-13 SP #2c, TT-13 SP #2e, and TT-13 SP #3) were submitted to the laboratory for analysis of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 16.0 mg/kg in soil sample TT-13 SP #3 to 8,530 mg/kg in soil sample TT-13 SP #2. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-14 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-13. The trench ranged in depth from approximately five feet (5') to approximately fifteen feet (15') bgs. Six (6) soil samples (TT-14 SP #1, TT-14 SP #1f, TT-14 SP #2, TT-14 SP #2c, TT-14 SP #2e, and TT-14 SP #3) were submitted to the laboratory for analysis of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil sample TT-14 SP #2e to 10,300 mg/kg in soil sample TT-14 SP #1. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-15 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-14. The trench ranged in depth from approximately five feet (5') to approximately sixteen feet (16') bgs. Five (5) soil samples (TT-15 SP #1, TT-15 SP #2, TT-15 SP #2c, TT-15 SP #2e, and TT-15 SP #3b) were submitted to the laboratory for analysis of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 48.0 mg/kg in soil sample TT-15 SP #3b to 8,640 mg/kg in soil sample TT-15 SP #2. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-16 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-15. The trench ranged in depth from approximately five feet (5') to approximately eleven feet (11') bgs. Four (4) soil samples (TT-16 SP #1, TT-16 SP #2, TT-16 SP #2c, and TT-16 SP #3) were submitted to the laboratory for analysis

of TPH, BTEX, and/or chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil sample TT-16 SP #2c to 2,240 mg/kg in soil sample TT-16 SP #2. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-17 was advanced north-to-south in the floor of the Pasture Excavation, approximately fifty feet (50') to the west of trench TT-16. The trench averaged approximately five feet (5') in depth. One (1) confirmation soil sample (TT-17 SP #2) was submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated the chloride concentration was 32.0 mg/kg, and TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL.

Delineation trench TT-18 was advanced northwest-to-southeast along the midline of the flow path of the release, approximately twenty-five feet (25') to the northwest of trench TT-15. The trench ranged in depth from approximately five feet (5') to approximately fifteen feet (15') bgs. Seven (7) confirmation soil samples (TT-18 SP #4, TT-18 SP #5, TT-18 SP #5c, TT-18 SP #5e, TT-18 SP #6, TT-18 SP #7a, and TT-18 SP #10) were submitted to the laboratory for analysis of chloride, TPH, and/or BTEX concentrations. Laboratory analytical results indicated chloride concentrations ranged from 48.0 mg/kg in soil sample TT-18 SP #10 to 7,280 mg/kg in soil sample TT-18 SP #6. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in all submitted soil samples.

Delineation trench TT-19 was advanced east-to-west across the flow path of the release, from the eastern wall of the excavation to the western wall, and bisected trench TT-18. The trench was advanced to a total depth of approximately five feet (5') bgs. Two (2) confirmation soil samples (TT-19 SP #1 and TT-19 SP #3) were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil sample TT-19 SP #3 to 320 mg/kg in soil sample TT-19 SP #1. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL in both soil samples.

On May 9, 2014, following advancement of delineation trench TT-19, trench TT-12 was re-excavated to approximately nineteen feet (19') bgs. One (1) soil sample was collected from the floor of the trench, field-screened with a chloride field test kit, and submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated the chloride concentration was 32.0 mg/kg. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL.

The Pasture Excavation was advanced in the area represented by soil sample S.P. #1, and six (6) confirmation soil samples (S.P. #1B, S.P. #9, S.P. #10A, S.P. #11, S.P. #12A, and S.P. #14) were collected from the sidewalls of the excavation and submitted to the laboratory for analysis of chloride concentrations. Soil samples S.P. #1B, S.P. #10A, and S.P. #12A were also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil sample S.P. #10A to 1,300 mg/kg in soil sample S.P. #9. TPH and BTEX constituent concentrations in soil samples S.P. #1B, S.P. #10A, and S.P. #12A were less than the appropriate laboratory MDL.

On May 12, 2014, excavation of the Pad Excavation commenced. Excavated soil was stockpiled on-site, pending final disposition.

On May 14, 2014, ten (10) soil samples (Pad Floor #2, Pad Floor #5, Pad Floor #7, Pad Floor #8, Pad SP #2, Pad SP #4, Pad SP #6, Pad SP #8, Pad SP #9, Pad SP #10) were collected from the floor and sidewalls of the Pad Excavation and submitted to the laboratory for analysis of chloride concentrations. Soil samples Pad Floor #2, Pad Floor #5, Pad Floor #7, and Pad Floor #8 were also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from 64.0 mg/kg in soil sample Pad SP #10 to 1,100 mg/kg in soil sample Pad SP #4. TPH and BTEX constituent concentrations in soil samples Pad Floor #2, Pad Floor #5, Pad Floor #7, and Pad Floor #8 were less than the appropriate laboratory MDL.

Further excavation of the area represented by soil sample Pad SP #4 was deemed impracticable due to the presence of active pipelines and electrical conduit adjacent to the excavation.

On May 20, 2014, fourteen (14) soil samples (Pad Floor #4b, Pad Floor #6b, Pad Floor #11, Pad Floor #12, Pad Floor #13, Pad Floor #14, Pad SP #7b, Pad SP #11, Pad SP #12, Pad SP #13, Pad SP #14, Pad SP #15, Pad SP #16, and Pad SP #17) were collected from the floor and sidewalls of the Pad Excavation and submitted to the laboratory for analysis of chloride concentrations. Soil samples Pad Floor #4b, Pad Floor #6b, Pad Floor #11, and Pad Floor #14 were also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL in soil samples Pad Floor #12 and Pad Floor #13 to 2,040 mg/kg in soil sample Pad SP #13. TPH and BTEX constituent concentrations in soil samples Pad Floor #4b, Pad Floor #6b, Pad Floor #11, and Pad Floor #14 were less than the appropriate laboratory MDL.

Further excavation in the area represented by soil sample Pad SP #13 was deemed impracticable due to the presence of an active pipeline adjacent to the excavation.

On May 21, 2014, a twenty-millimeter (20mm), impermeable, polyurethane liner was installed on the floor of the Pasture Excavation at approximately three feet (3') bgs. The placement and size of the liner was determined by reviewing field-screen results and laboratory analytical data from the delineation trenches advanced at the site from May 6 through May 9, 2014. The footprint of the liner is depicted in Figure 2, "Site & Sample Location Map".

On May 27, 2014, eight (8) soil samples (Pad Floor #15, Pad Floor #16, Pad SP #20, Pad SP #21, Pad SP #22, Pad SP #23, Pad SP #24, and Pad SP #25) were collected from the floor and sidewalls of the Pad Excavation and submitted to the laboratory for analysis of chloride concentrations. Soil sample Pad Floor #16 was also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from 16.0 mg/kg in soil sample Pad Floor #16 to 464 mg/kg in soil sample Pad SP #23. TPH and BTEX constituent concentrations in soil sample Pad Floor #16 were less than the appropriate laboratory MDL.

On May 28, 2014, four (4) soil samples (Pad Floor #9, Pad Floor #10, Pad SP #18, and Pad SP #19) were collected from the floor and sidewalls of the Pad Excavation and submitted to the laboratory for analysis of chloride concentrations. Soil samples Pad Floor #9 and Pad Floor #10 were also analyzed for concentrations of TPH and BTEX. Laboratory analytical results indicated chloride concentrations ranged from 64.0 mg/kg in soil sample Pad Floor #9 to 560 mg/kg in soil

sample Pad SP #18. TPH and BTEX constituent concentrations in soil sample Pad Floor #9 and Pad Floor #10 were less than the appropriate laboratory MDL.

On June 2, 2014, the Pad Excavation was advanced in the area of soil sample Pad SP #7b. One (1) confirmation soil sample (Pad SP #7c) was collected from the sidewall of the excavation and submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated the chloride concentration was 80.0 mg/kg. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL.

On June 5, 2014, the Pasture Excavation was advanced in the area of soil sample SP #9. One (1) soil sample (SP #9b) was collected from the sidewall of the excavation and submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results indicated the chloride concentration was 176 mg/kg. TPH and BTEX constituent concentrations were less than the appropriate laboratory MDL.

Based on laboratory analytical results and field-screens, from May 20 through June 11, 2014, the Pasture and Pad Excavations were backfilled with locally purchased, non-impacted material, compacted, and contoured to fit the surrounding topography. The final dimensions of the Pasture Excavation were approximately two hundred and eighty-five feet (285') in length, varying in width from approximately twenty-five feet (25') to approximately two hundred and sixty feet (260') along the flow path of the release, and approximately four feet (4') in depth. The final dimensions of the Pad Excavation were approximately one hundred and sixty-five feet (165') in length, varying in width from approximately thirty feet (30') to approximately one hundred and forty feet (140'), and varying in depth from approximately one and one-half feet (1.5') to approximately two and one-half feet (2.5') bgs.

On June 18, 2014, the affected pastureland was seeded with a BLM-approved seed mixture.

4.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories in Hobbs, New Mexico, for BTEX, TPH, and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Methods 4500 Cl-B

4.2 Decontamination of Equipment

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

4.3 Laboratory Protocol

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

5.0 SITE CLOSURE REQUEST

The PLU #162 release site was excavated to the extent practicable. Soil samples collected from the floors and sidewalls of the excavations were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, and TPH were below the recommended remediation action levels (RRAL's) established for the site by the NMOCD.

A twenty-millimeter (20mm), impermeable, polyurethane liner was installed on the floor of the Pasture excavation prior to backfilling. This engineered control will help mitigate future releases and effectively inhibit vertical migration of contaminants to groundwater. In-situ soil exhibiting chloride contaminations above the RRAL established for the site will be remediated upon decommission and/or abandonment of the currently active well, pipelines, and/or electrical utilities.

Basin Environmental recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary & Risk-Based Site Closure Request* and request the NMOCD grant site closure to the PLU #162 release site.

6.0 LIMITATIONS

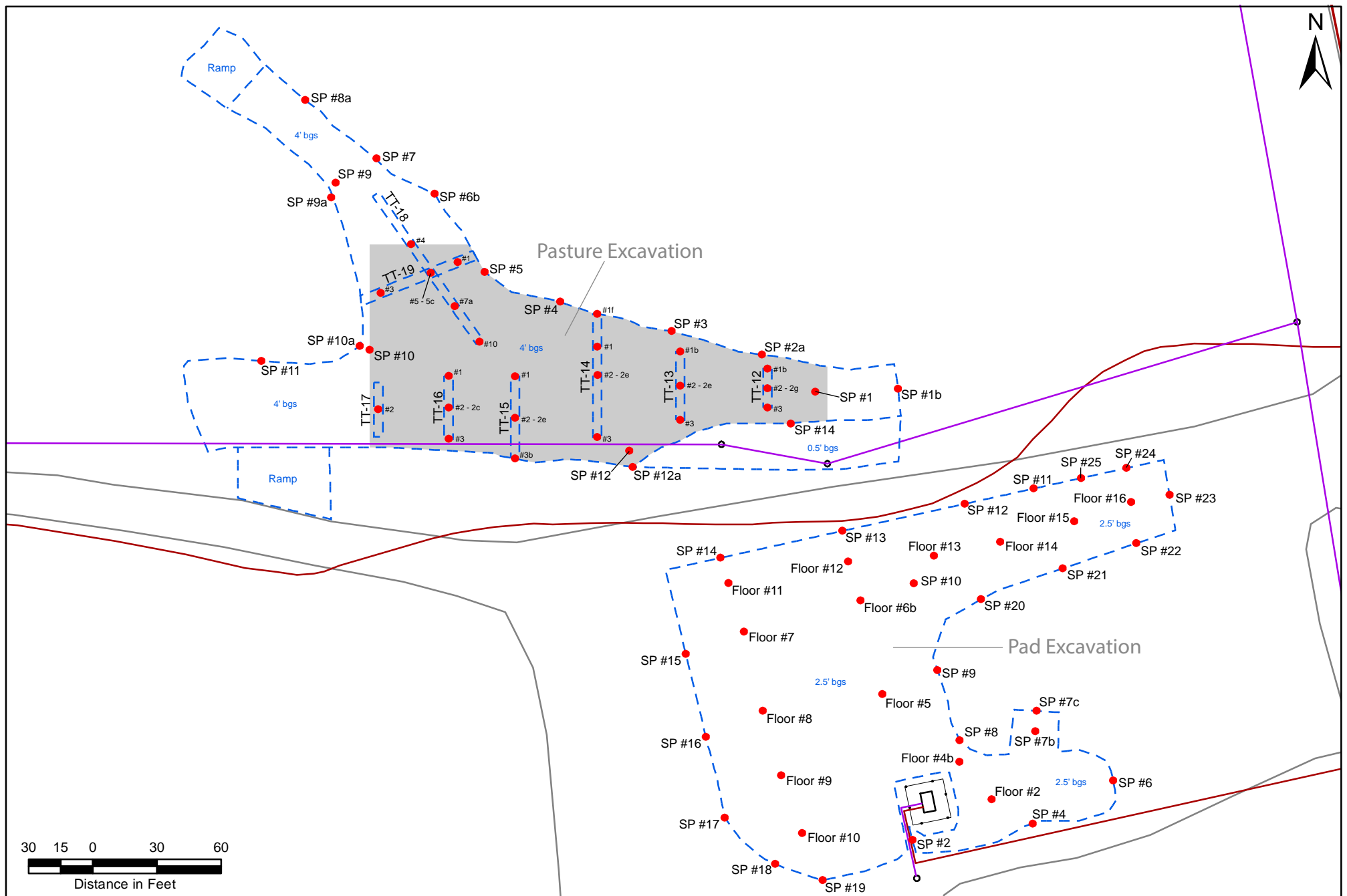
Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on 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:

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Figures



- Legend**
- Excavation Extent
 - Pipeline
 - Caliche Road/Pad
 - Fence
 - Electrical Line
 - Sample Location
 - Polyurethane Liner

Figure 2
Site & Sample Location Map
BOPCO, LP
Poker Lake Unit #162
Eddy County, New Mexico
NMOCD Reference #: 2RP-2265



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

Drawn By: BJA	Checked By: BRB
October 27, 2014	Scale: 1" = 60'

Tables

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

BOPCO, LP
POKER LAKE UNIT #162
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-2265

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)	4500 Cl-B CHLORIDE (mg/Kg)
				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)		
SP #1	3'	4/28/2014	Excavated	-	-	-	-	-	-	-	-	-	1,120
SP #2a	3'	4/28/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SP #3	3'	4/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
SP #4	3'	4/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	16.0
SP #5	3'	4/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
SP #6b	3'	4/28/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SP #7	3'	4/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
SP #8a	3'	4/28/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
TT-12 SP #1b	5'	5/6/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
TT-12 SP #2	5'	5/6/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6,660
TT-12 SP #2d	13'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	9,730
TT-12 SP #2f	17'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	8,530
TT-12 SP #2g	19'	5/9/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
TT-12 SP #3	5'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	9,060
TT-13 SP #1b	7'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	336
TT-13 SP #2	5'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	8,530
TT-13 SP #2c	11'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	7,730
TT-13 SP #2e	15'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
TT-13 SP #3	5'	5/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	16.0
TT-14 SP #1	5'	5/7/2014	In-Situ	-	-	-	-	-	-	-	-	-	10,300
TT-14 SP #1f	7'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
TT-14 SP #2	5'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6,400
TT-14 SP #2c	11'	5/7/2014	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	3,200
TT-14 SP #2e	15'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
TT-14 SP #3	5'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
TT-15 SP #1	5'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
TT-15 SP #2	5'	5/7/2014	In-Situ	-	-	-	-	-	-	-	-	-	8,640
TT-15 SP #2c	12'	5/7/2014	In-Situ	-	-	-	-	-	-	-	-	-	3,720
TT-15 SP #2e	16'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
TT-15 SP #3b	7'	5/7/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
TT-16 SP #1	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
TT-16 SP #2	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,240
TT-16 SP #2c	11'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

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

BOPCO, LP
POKER LAKE UNIT #162
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-2265

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)	4500 Cl-B CHLORIDE (mg/Kg)
				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)		
TT-16 SP #3	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
TT-17 SP #2	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
TT-18 SP #4	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
TT-18 SP #5	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,660
TT-18 SP #5c	11'	5/8/2014	In-Situ	-	-	-	-	-	-	-	-	-	2,200
TT-18 SP #5e	15'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
TT-18 SP #6	5'	5/8/2014	In-Situ	-	-	-	-	-	-	-	-	-	7,280
TT-18 SP #7a	10'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
TT-18 SP #10	5'	5/8/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
TT-19 SP #1	5'	5/9/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
TT-19 SP #3	5'	5/9/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SP #1b	3'	5/9/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SP #9	3'	5/9/2014	Excavated	-	-	-	-	-	-	-	-	-	1,300
SP #10a	3'	5/9/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SP #11	3'	5/9/2014	In-Situ	-	-	-	-	-	-	-	-	-	240
SP #12a	3'	5/9/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
SP #14	3'	5/9/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
Pad Floor #2	1.5'	5/14/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
Pad Floor #5	1.5'	5/14/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
Pad Floor #7	2'	5/14/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
Pad Floor #8	2'	5/14/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
Pad SP #2	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	960
Pad SP #4	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	1,100
Pad SP #6	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	944
Pad SP #8	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	640
Pad SP #9	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	672
Pad SP #10	1'	5/14/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
Pad Floor #4b	2'	5/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Pad Floor #6b	2.5'	5/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
Pad Floor #11	2.5'	5/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Pad Floor #12	2.5'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
Pad Floor #13	2.5'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0

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

BOPCO, LP
POKER LAKE UNIT #162
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: 2RP-2265

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)	4500 Cl-B CHLORIDE (mg/Kg)
				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)		
Pad Floor #14	2.5'	5/20/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
Pad SP #7b	1'	5/20/2014	Excavated	-	-	-	-	-	-	-	-	-	1,150
Pad SP #11	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	208
Pad SP #12	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	192
Pad SP #13	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	2,040
Pad SP #14	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
Pad SP #15	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	96.0
Pad SP #16	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	144.0
Pad SP #17	2'	5/20/2014	In-Situ	-	-	-	-	-	-	-	-	-	160
Pad Floor #15	2.5'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	32.0
Pad Floor #16	2.5'	5/27/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
Pad SP #20	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	384
Pad SP #21	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	288
Pad SP #22	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	80.0
Pad SP #23	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	464
Pad SP #24	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	80.0
Pad SP #25	2'	5/27/2014	In-Situ	-	-	-	-	-	-	-	-	-	64.0
Pad Floor #9	2.5'	5/28/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
Pad Floor #10	2.5'	5/28/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
Pad SP #18	2'	5/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	560
Pad SP #19	2'	5/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	272
Pad SP #7c	1'	6/2/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SP #9a	1'	6/5/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
NMOCD Recommended Remediation Action Level				10				50				5,000	1,000

- = Not analyzed.

Appendices

Appendix A

Release Notification &

Corrective Action (Form C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

HMP 1411829494

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. <i>260 737</i>	Contact: Tony Savoie	
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329	
Facility Name: PLU-162	Facility Type: Exploration and Production	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-35522

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	6	24S	30E	660	North	1855	West	Eddy

Latitude N 32.252159 Longitude W 103.923572

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 400 bbls	Volume Recovered: None
Source of Release: 1" hose on the water injection line	Date and Hour of Occurrence: 4/20/14 time unknown	Date and Hour of Discovery: 4/20/14 at 5:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD emergency #104 and the BLM	
By Whom? Tony Savoie	Date and Hour: 4/20/14 at 9:00 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED

APR 24 2014

NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A 1" high pressure hose connecting the flow line to the well failed at the coupling. The hose section was replaced.

Describe Area Affected and Cleanup Action Taken.*

The spill impacted approximately 22,500 sq.ft. of well pad area and approximately 15,000 sq.ft. of pasture area. The site was cleared by the BLM Arch survey. Basin Environmental began delineation activities on 4/21/14 and started removing impacted soil on 4/22/14. The remediation is in progress. The spill will be cleaned up in accordance to the NMOCD and BLM remediation guidelines.

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: <i>Tony Savoie</i>		OIL CONSERVATION DIVISION	
Printed Name: Tony Savoie		Approved by Environmental Specialist: <i>H. P.</i>	
Title: Waste Management and Remediation Specialist		Approval Date: <i>4/28/14</i>	Expiration Date: <i>NA</i>
E-mail Address: <i>tasavoie@basspet.com</i>		Conditions of Approval:	
Date: 4/24/14 Phone: 432-556-8730		Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <i>5/25/14</i>	
		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

2RP-2265

Appendix B

Photographs



Poker Lake Unit #162 – Point of Release



Poker Lake Unit #162 – Release Site (Looking Southwest)



Poker Lake Unit #162 – Release Site (Looking West)



Poker Lake Unit #162 – Release Site (Looking Northwest)



Poker Lake Unit #162 – Release Site (Looking East)



Poker Lake Unit #162 – Release Site (Looking North)



Poker Lake Unit #162 – Release Site (Looking South)



Poker Lake Unit #162 – Release Site (Looking South)



Poker Lake Unit #162 – Release Site (Looking West)



Poker Lake Unit #162 – Pasture Excavation (Looking West)



Poker Lake Unit #162 – Pasture Excavation (Looking Northeast)



Poker Lake Unit #162 – Pasture Excavation (Looking Southwest)



Poker Lake Unit #162 – Pasture Excavation (Flow Path; Looking Northwest)



Poker Lake Unit #162 – Pasture Excavation (Flow Path; Looking Southeast)



Poker Lake Unit #162 – Pasture Excavation (Looking East-Southeast)



Poker Lake Unit #162 – Delineation Trenching



Poker Lake Unit #162 – Delineation Trenching (TT-12)



Poker Lake Unit #162 – Pad Excavation (Looking West)



Poker Lake Unit #162 – Pad Excavation (Looking Northwest)



Poker Lake Unit #162 – Pad Excavation (Looking North)



Poker Lake Unit #162 – Pad Excavation (Looking Southwest)



Poker Lake Unit #162 – Pad Excavation
(Following Additional Excavation in Area of Soil Sample Pad Floor #6; Looking West)



Poker Lake Unit #162 – Pad Excavation
(Following Additional Excavation in Area of Soil Sample Pad Floor #6; Looking West)



Poker Lake Unit #162 – Pad Excavation
(Following Additional Excavation in Area of Soil Sample Pad SP #7; Looking Southeast)



Poker Lake Unit #162 – Liner Installation



Poker Lake Unit #162 – Liner Installation



Poker Lake Unit #162 – Liner Installation



Poker Lake Unit #162 – Liner Installation



Poker Lake Unit #162 – Liner Installation & Backfilling

Appendix E

Laboratory Analytical Reports



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

May 13, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 04/30/14 12:05.

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

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

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/30/2014
Reported: 05/13/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #1 (H401300-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	05/06/2014	ND	400	100	400	3.92	

Sample ID: S. P. #2A (H401300-02)

BTEX 8260B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTEX	<0.300	0.300	05/12/2014	ND					

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 98.9 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/06/2014	ND	400	100	400	3.92	

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	05/12/2014	ND	195	97.3	200	0.174	
DRO >C10-C28	<10.0	10.0	05/12/2014	ND	205	102	200	0.686	
EXT DRO >C28-C35	<10.0	10.0	05/12/2014	ND					

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/30/2014
Reported: 05/13/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #2A (H401300-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane	127 %	65.2-140							
Surrogate: 1-Chlorooctadecane	130 %	63.6-154							

Sample ID: S. P. #3 (H401300-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2014	ND	400	100	400	3.92		

Sample ID: S. P. #4 (H401300-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/06/2014	ND	400	100	400	3.92	

Sample ID: S. P. #5 (H401300-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2014	ND	400	100	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/30/2014
Reported: 05/13/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #6B (H401300-06)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTX	<0.300	0.300	05/12/2014	ND					

Surrogate: Dibromofluoromethane 97.8 % 61.3-142
Surrogate: Toluene-d8 104 % 71.3-129
Surrogate: 4-Bromofluorobenzene 98.0 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2014	ND	400	100	400	3.92		

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	05/12/2014	ND	195	97.3	200	0.174	
DRO >C10-C28	<10.0	10.0	05/12/2014	ND	205	102	200	0.686	
EXT DRO >C28-C35	<10.0	10.0	05/12/2014	ND					

Surrogate: 1-Chlorooctane 119 % 65.2-140
Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/30/2014
Reported: 05/13/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 04/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #7 (H401300-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2014	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/30/2014
 Reported: 05/13/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/28/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S. P. #8A (H401300-08)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2014	ND	2.32	116	2.00	5.07	
Toluene*	<0.050	0.050	05/12/2014	ND	2.22	111	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/12/2014	ND	2.07	103	2.00	5.42	
Total Xylenes*	<0.150	0.150	05/12/2014	ND	6.37	106	6.00	5.59	
Total BTX	<0.300	0.300	05/12/2014	ND					

Surrogate: Dibromofluoromethane 94.3 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/06/2014	ND	400	100	400	3.92		

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	05/12/2014	ND	195	97.3	200	0.174	
DRO >C10-C28	<10.0	10.0	05/12/2014	ND	205	102	200	0.686	
EXT DRO >C28-C35	<10.0	10.0	05/12/2014	ND					

Surrogate: 1-Chlorooctane 125 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Page 8 of 8

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Revision 1.0

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

#54

May 21, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/14/14 12:30.

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

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

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

Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-12 SP #1B (H401462-01)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTEX	<0.300	0.300	05/17/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.9 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/19/2014	ND	400	100	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	05/18/2014	ND	198	99.0	200	9.70	
DRO >C10-C28	<10.0	10.0	05/18/2014	ND	227	114	200	10.0	
EXT DRO >C28-C35	<10.0	10.0	05/18/2014	ND					

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-12 SP #2 (H401462-02)

BTEX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTEX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 97.4 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	05/19/2014	ND	400	100	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	05/18/2014	ND	198	99.0	200	9.70	
DRO >C10-C28	<10.0	10.0	05/18/2014	ND	227	114	200	10.0	
EXT DRO >C28-C35	<10.0	10.0	05/18/2014	ND					

Surrogate: 1-Chlorooctane 110 % 65.2-140
Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-12 SP #2D (H401462-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	05/19/2014	ND	400	100	400	0.00	

Sample ID: TT-12 SP #2F (H401462-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	05/19/2014	ND	400	100	400	0.00	

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Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-12 SP #2G (H401462-05)

BTEX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTEX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 96.1 % 61.3-142
Surrogate: Toluene-d8 100 % 71.3-129
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	198	99.0	200	9.70	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	227	114	200	10.0	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 112 % 65.2-140
Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Analytical Results For:

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

 Received: 05/14/2014
 Reported: 05/21/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT-12 SP #3 (H401462-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9060	16.0	05/19/2014	ND	400	100	400	0.00		

Sample ID: TT-13 SP #1B (H401462-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/19/2014	ND	400	100	400	0.00	

Sample ID: TT-13 SP #2 (H401462-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8530	16.0	05/19/2014	ND	400	100	400	0.00		

Sample ID: TT-13 SP #2C (H401462-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	05/19/2014	ND	400	100	400	0.00	

Sample ID: TT-13 SP #2E (H401462-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/19/2014	ND	400	100	400	0.00	

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Analytical Results For:

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

 Received: 05/14/2014
 Reported: 05/21/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/06/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT-13 SP #3 (H401462-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/19/2014	ND	400	100	400	0.00	

Sample ID: TT-14 SP #1 (H401462-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	05/19/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-14 SP #1F (H401462-13)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTX	<0.300	0.300	05/17/2014	ND					

Surrogate: Dibromofluoromethane 96.8 % 61.3-142
Surrogate: Toluene-d8 98.3 % 71.3-129
Surrogate: 4-Bromofluorobenzene 99.7 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 118 % 65.2-140
Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-14 SP #2 (H401462-14)

BTEX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTEX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 100 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 98.2 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 112 % 65.2-140
Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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 Received: 05/14/2014
 Reported: 05/21/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/07/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT-14 SP #2C (H401462-15)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56		
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52		
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND						
Surrogate: 1-Chlorooctane	104 %	65.2-140								
Surrogate: 1-Chlorooctadecane	103 %	63.6-154								

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-14 SP #2E (H401462-16)

BTX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 101 % 61.3-142
Surrogate: Toluene-d8 98.5 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 105 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Fax To: (575) 396-1429

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-14 SP #3 (H401462-17)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTX	<0.300	0.300	05/17/2014	ND					

Surrogate: Dibromofluoromethane 96.3 % 61.3-142
Surrogate: Toluene-d8 99.3 % 71.3-129
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 117 % 65.2-140
Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-15 SP #1 (H401462-18)

BTX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 97.8 % 61.3-142
Surrogate: Toluene-d8 99.0 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

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

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Fax To: (575) 396-1429

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-15 SP #2 (H401462-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	05/19/2014	ND	400	100	400	0.00	

Sample ID: TT-15 SP #2C (H401462-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	05/19/2014	ND	400	100	400	0.00	

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-15 SP #2E (H401462-21)

BTX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 97.6 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 120 % 65.2-140
Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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Fax To: (575) 396-1429

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/07/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-15 SP #3B (H401462-22)

BTX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33	
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464	
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90	
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93	
Total BTX	<0.300	0.300	05/17/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142
Surrogate: Toluene-d8 99.4 % 71.3-129
Surrogate: 4-Bromofluorobenzene 99.3 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 104 % 65.2-140
Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-16 SP #1 (H401462-23)

BTX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142
Surrogate: Toluene-d8 98.7 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 132 % 65.2-140
Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-16 SP #2 (H401462-24)

BTEX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTEX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 99.4 % 61.3-142
Surrogate: Toluene-d8 98.9 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 132 % 65.2-140
Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-16 SP #2C (H401462-25)

BTX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 99.1 % 61.3-142
Surrogate: Toluene-d8 99.4 % 71.3-129
Surrogate: 4-Bromofluorobenzene 99.4 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/19/2014	ND	400	100	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	05/20/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					

Surrogate: 1-Chlorooctane 118 % 65.2-140
Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-16 SP #3 (H401462-26)

BTX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/17/2014	ND	2.19	110	2.00	3.33		
Toluene*	<0.050	0.050	05/17/2014	ND	2.08	104	2.00	0.464		
Ethylbenzene*	<0.050	0.050	05/17/2014	ND	1.95	97.6	2.00	1.90		
Total Xylenes*	<0.150	0.150	05/17/2014	ND	6.07	101	6.00	1.93		
Total BTX	<0.300	0.300	05/17/2014	ND						

Surrogate: Dibromofluoromethane 102 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 117 % 65.2-140
Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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 Received: 05/14/2014
 Reported: 05/21/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/08/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT-17 SP #2 (H401462-27)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64		
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04		
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46		
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52		
Total BTX	<0.300	0.300	05/19/2014	ND						

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	32.0	16.0	05/19/2014	ND	400	100	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	05/20/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-18 SP #4 (H401462-28)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTX	<0.300	0.300	05/19/2014	ND					

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	64.0	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.1 % 63.6-154

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-18 SP #5 (H401462-29)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64		
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04		
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46		
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52		
Total BTEX	<0.300	0.300	05/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	1660	16.0	05/19/2014	ND	400	100	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-18 SP #5C (H401462-30)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	05/19/2014	ND	416	104	400	0.00	

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-18 SP #5E (H401462-31)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEX	<0.300	0.300	05/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	192	16.0	05/19/2014	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	05/20/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-18 SP #6 (H401462-32)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	05/19/2014	ND	416	104	400	0.00	

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 Received: 05/14/2014
 Reported: 05/21/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/08/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT-18 SP #7A (H401462-33)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64		
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04		
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46		
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52		
Total BTEX	<0.300	0.300	05/19/2014	ND						

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	336	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-18 SP #10 (H401462-34)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64		
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04		
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46		
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52		
Total BTX	<0.300	0.300	05/19/2014	ND						

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	48.0	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/14/2014
 Reported: 05/21/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: TT-19 SP #1 (H401462-35)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64		
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04		
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46		
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52		
Total BTEX	<0.300	0.300	05/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	05/19/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 162 % 65.2-140

Surrogate: 1-Chlorooctadecane 159 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-19 SP #3 (H401462-36)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTX	<0.300	0.300	05/19/2014	ND					

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	<16.0	16.0	05/19/2014	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	05/19/2014	ND	211	105	200	4.56	
DRO >C10-C28	<10.0	10.0	05/19/2014	ND	231	115	200	3.52	
EXT DRO >C28-C35	<10.0	10.0	05/19/2014	ND					

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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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

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Celey D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/6

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST																																	
Project Manager: Ben Arguijo				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																	
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. Marland																																					
Project #: Project Owner: BOPCO, LP				City: Carlsbad																																					
Project Name: PLU #162				State: NM Zip: 88220																																					
Project Location: Eddy Co., NM				Phone #: (432)556-8730																																					
Sampler Name: Stetson Kirkpatrick				Fax #:																																					
FOR LAB USE ONLY:				MATRIX				PRESERV.		SAMPLING																															
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													
H401462				G		1						X										X				5/6/14		0930		X X X											
2		TT-12 SP#2																								0915				X X											
3		TT-12 SP#20																								1015															
4		TT-12 SP#2F																								1035															
5		TT-12 SP#2G																								5/9/14 1450				X X											
6		TT-12 SP#3																								5/6/14 0920															
7		TT-13 SP#1B																								1300															
8		TT-13 SP#2																								1235															
9		TT-13 SP#2C																								1330															
10		TT-13 SP#2E																								1350															

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Relinquished By:		Date: 5/6/14		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
<i>Stetson Kirkpatrick</i>		Time: 1700		<i>[Signature]</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 5/14/14		Received By:		REMARKS:			
<i>[Signature]</i>		Time: 0700		<i>[Signature]</i>					
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other:		0.60C		Sample Condition		CHECKED BY:			
FORM-006				Cool Intact		(Initials)			
				<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes		f.y.			
				<input type="checkbox"/> No <input type="checkbox"/> No					

Please email results to bjarguijo@basinenv.com,
TASavoie@BassPet.com & SJWalters@BassPet.com

Revision 1.0

5/14/14 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

5.14.14 17:35 A. [Signature]

ARDINAL LABORATORIES

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





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		5/6/14		Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Time:		1700		REMARKS:		
Relinquished By:		Date:	Received By:	Please email results to bjarguijo@basinenv.com , TASavoie@BassPet.com & SJWalters@BassPet.com		
		5/14/14				
Time:		0700				
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>		(Initials)		
FORM-006		<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		7.4.		

Revision 1.0

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

Please email results to bjarguijo@basinenv.com,
TASavoie@BassPet.com & SJWalters@BassPet.com

12:38


$$3/16$$




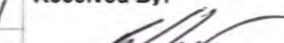



(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4/4

Page 35 of 37

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Relinquished By: 		Date: 5/7/14	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 1700				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: 		Date: 5-14-14	Received By: 	REMARKS:	
Time: 12:35					
Delivered By: (Circle One)		Sample Condition:	CHECKED BY: (Initials) 	Please email results to bjarguijo@basinenv.com , TASavoie@BassPet.com & SJWalters@BassPet.com	
Sampler - UPS - Bus - Other:		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No			
FORM-006					

Revision 1.0

5/14/14

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**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5/10

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST																							
Project Manager: Ben Arguijo				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
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. Marland																											
Project #:		Project Owner: BOPCO, LP		City: Carlsbad																											
Project Name: PLU #162				State: NM Zip: 88220																											
Project Location: Eddy Co., NM				Phone #: (432)556-8730																											
Sampler Name: Ben J. Arguijo				Fax #:																											
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																					
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			
H401462																															
23		TT-16 SP #1		G 1				X												X		5/8/14		1030		X		X		X	
24		TT-16 SP #2		G 1				X												X		5/8/14		1035		X		X		X	
25		TT-16 SP #2C		G 1				X												X		5/8/14		1120		X		X		X	
26		TT-16 SP #3		G 1				X												X		5/8/14		1040		X		X		X	
27		TT-17 SP #2		G 1				X												X		5/8/14		1220		X		X		X	
28		TT-18 SP #4		G 1				X												X		5/8/14		1315		X		X		X	
29		TT-18 SP #5		G 1				X												X		5/8/14		1320		X		X		X	
30		TT-18 SP #5C		G 1				X												X		5/8/14		1345		X					
31		TT-18 SP #5E		G 1				X												X		5/8/14		1435		X		X		X	
32		TT-18 SP #6		G 1				X												X		5/8/14		1500		X					

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Relinquished By:		Date: 5/14/14		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 0700				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 5/14/14		Received By:		REMARKS:			
		Time: 1230							
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other: 0.60 #54		Sample Condition		CHECKED BY: (Initials)		Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com			
FORM-006		Cool Intact		J.Y.					
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No					

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6/6

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST																																							
Project Manager: Ben Arguijo				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																							
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. Marland																																											
Project #: Project Owner: BOPCO, LP				City: Carlsbad																																											
Project Name: PLU #162				State: NM Zip: 88220																																											
Project Location: Eddy Co., NM				Phone #: (432)556-8730																																											
Sampler Name: Ben J. Arguijo				Fax #:																																											
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																																					
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																			
H401462				G		1		X												X						5/8/14		1520		X		X		X													
33		TT-18 SP #7A		G		1		X												X						5/8/14		1510		X		X		X													
34		TT-18 SP #10		G		1		X												X						5/9/14		0950		X		X		X													
35		TT-19 SP #1		G		1		X												X						5/9/14		1000		X		X		X													
36		TT-19 SP #3		G		1		X												X																											

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Relinquished By:		Date: 5/14/14		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 0700				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 5/14/14		Received By:		REMARKS: Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com			
		Time: 1230							
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other:		FORM-006		Sample Condition		CHECKED BY: (Initials)			
		0.6x		Cool Intact		Yes No			
				Yes No		Yes No			

Revision 1.0

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



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

May 21, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/14/14 12:30.

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

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

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #1B (H401463-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64	
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04	
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46	
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52	
Total BTEx	<0.300	0.300	05/19/2014	ND					

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	32.0	16.0	05/19/2014	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	05/20/2014	ND	206	103	200	2.44	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	229	115	200	2.08	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					

Surrogate: 1-Chlorooctane 72.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 71.8 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #9 (H401463-02)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	05/19/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #10A (H401463-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64		
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04		
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46		
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52		
Total BTEX	<0.300	0.300	05/19/2014	ND						

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	<16.0	16.0	05/19/2014	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	05/20/2014	ND	206	103	200	2.44	
DRO >C10-C28	<10.0	10.0	05/20/2014	ND	229	115	200	2.08	
EXT DRO >C28-C35	<10.0	10.0	05/20/2014	ND					

Surrogate: 1-Chlorooctane 83.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #11 (H401463-04)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/19/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #12A (H401463-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2014	ND	1.82	91.0	2.00	3.64		
Toluene*	<0.050	0.050	05/19/2014	ND	1.82	91.2	2.00	4.04		
Ethylbenzene*	<0.050	0.050	05/19/2014	ND	1.76	88.0	2.00	4.46		
Total Xylenes*	<0.150	0.150	05/19/2014	ND	5.51	91.9	6.00	4.52		
Total BTEX	<0.300	0.300	05/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	05/19/2014	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	05/21/2014	ND	206	103	200	2.44	
DRO >C10-C28	<10.0	10.0	05/21/2014	ND	229	115	200	2.08	
EXT DRO >C28-C35	<10.0	10.0	05/21/2014	ND					

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/14/2014
Reported: 05/21/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #14 (H401463-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/19/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST																			
Project Manager: Ben Arguijo				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
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. Marland																							
Project #: Project Owner: BOPCO, LP				City: Carlsbad																							
Project Name: PLU #162				State: NM Zip: 88220																							
Project Location: Eddy Co., NM				Phone #: (432)556-8730																							
Sampler Name: Miguel Ramirez				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
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													
#401463																											
1.	S.P. #1B	G	1			X				X			5/9/14	1450	X	X	X										
2.	S.P. #9													1500													
3.	S.P. #10A													1540		X	X										
4.	S.P. #11													1510													
5.	S.P. #12A													1555		X	X										
6.	S.P. #14													1525													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's Section 106 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: 5/9/14	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1700		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 5/9/14	Received By:	REMARKS:	
	Time: 1700			
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	0.600	Cool Intact	F.V.	
FORM-006		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com

Revision 1.0

5/14/14 Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

1230 5-14-14 12:35 A. yarbrough #54



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

May 29, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/15/14 8:10.

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

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

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/15/2014
Reported: 05/29/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #2 (H401472-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTX	<0.300	0.300	05/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	336	16.0	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/15/2014
Reported: 05/29/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #5 (H401472-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEx	<0.300	0.300	05/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	240	16.0	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/15/2014
Reported: 05/29/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #7 (H401472-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEx	<0.300	0.300	05/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/15/2014
 Reported: 05/29/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #8 (H401472-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEx	<0.300	0.300	05/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	304	16.0	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/15/2014
Reported: 05/29/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD S. P. #2 (H401472-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	05/19/2014	ND	416	104	400	0.00	

Sample ID: PAD S. P. #4 (H401472-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	05/19/2014	ND	416	104	400	0.00	

Sample ID: PAD S. P. #6 (H401472-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	05/19/2014	ND	416	104	400	0.00	

Sample ID: PAD S. P. #8 (H401472-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/19/2014	ND	416	104	400	0.00	

Sample ID: PAD S. P. #9 (H401472-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	05/19/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/15/2014
Reported: 05/29/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD S. P. #10 (H401472-10)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/19/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

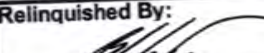
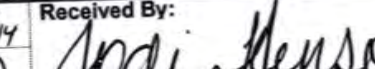



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

10	Pad S.P. #10	G 1	X	X	X	X	X	X	X
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's Section 106 remedy for any claim arising under 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.</p>									
Date: 1/1/01		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No					

Relinquished By: 		Date: 5/15/14 Time: 8:10	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: A Hold for TPH & BTEX *
Relinquished By:		Date: Time:	Received By:	Add'l Phone #: Add'l Fax #: Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		4.20	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) 



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

May 29, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/15/14 8:10.

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

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

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/15/2014
Reported: 05/29/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 441 STOCKPILE W. (H401473-01)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/28/2014	ND	2.35	117	2.00	0.169		
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564		
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243		
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216		
Total BTEX	<0.300	0.300	05/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	816	16.0	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/15/2014
Reported: 05/29/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD CALICHE E. (H401473-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2014	ND	2.35	117	2.00	0.169	
Toluene*	<0.050	0.050	05/28/2014	ND	2.33	116	2.00	0.564	
Ethylbenzene*	<0.050	0.050	05/28/2014	ND	2.23	111	2.00	0.00243	
Total Xylenes*	<0.150	0.150	05/28/2014	ND	6.97	116	6.00	0.0216	
Total BTEx	<0.300	0.300	05/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	192	16.0	05/19/2014	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	05/27/2014	ND	212	106	200	16.2	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	228	114	200	20.7	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST															
Company Name: Basin Environmental Service Technologies, LLC										P.O. #:															
Project Manager: Ben Arguijo										Company: BOPCO, LP															
Address: P.O. Box 301										Attn: Tony Savoie															
City: Lovington State: NM Zip: 88260										Address: 522 W. Marland															
Phone #: (575)396-2378 Fax #: (575)396-1429										City: Carlsbad															
Project #: Project Owner: BOPCO, LP										State: NM Zip: 88220															
Project Name: PLU #162										Phone #: (432)556-8730															
Project Location: Eddy Co., NM										Fax #:															
Sampler Name: Ben J. Arguijo																									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		DATE		TIME		Chloride		TPH (8015M)		BTEX (8021B)	
		H4D1472		441 Stockpile W.		C		1		GROUNDWATER		X		X		5/14/14		1045		X		X		X	
		1/2		Pad Caliche E.		C		1		WASTEWATER		X		X		5/14/14		1200		X		X		X	

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Relinquished By:		Date: 5/15/14	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 8:10				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS: * Hold for TPH & BTEX *	
Time:				Please email results to bjarguijo@basinerv.com, TASavoie@BassPet.com & SJWalters@BassPet.com	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: JTA	
Sampler - UPS - Bus - Other:		Cool Intact			
FORM-006		Yes No			
Revision 1.0		No No			

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

#54

June 02, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/22/14 11:30.

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

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

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

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/22/2014
 Reported: 06/02/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/20/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PAD S.P. #14 (H401572-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/28/2014	ND	416	104	400	0.00	

Sample ID: PAD FLOOR #11 (H401572-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2014	ND	2.17	109	2.00	0.311	
Toluene*	<0.050	0.050	05/30/2014	ND	2.16	108	2.00	1.14	
Ethylbenzene*	<0.050	0.050	05/30/2014	ND	2.07	104	2.00	0.568	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.48	108	6.00	0.666	
Total BTEx	<0.300	0.300	05/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	05/28/2014	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	05/27/2014	ND	199	99.5	200	1.11	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	213	107	200	0.0136	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 119 % 65.2-140

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/22/2014
 Reported: 06/02/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/20/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #11 (H401572-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctadecane	116 %	63.6-154							

Sample ID: PAD S.P. #13 (H401572-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	05/28/2014	ND	416	104	400	0.00	

Sample ID: PAD FLOOR #12 (H401572-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/28/2014	ND	416	104	400	0.00		

Sample ID: PAD S.P. #12 (H401572-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/28/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/22/2014
Reported: 06/02/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #13 (H401572-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/28/2014	ND	416	104	400	0.00		

Sample ID: PAD S.P. #11 (H401572-07)

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	05/28/2014	ND	416	104	400	0.00	

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P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 05/22/2014
Reported: 06/02/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #14 (H401572-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2014	ND	2.17	109	2.00	0.311	
Toluene*	<0.050	0.050	05/30/2014	ND	2.16	108	2.00	1.14	
Ethylbenzene*	<0.050	0.050	05/30/2014	ND	2.07	104	2.00	0.568	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.48	108	6.00	0.666	
Total BTX	<0.300	0.300	05/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	05/28/2014	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	05/27/2014	ND	199	99.5	200	1.11	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	213	107	200	0.0136	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/22/2014
 Reported: 06/02/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/20/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PAD S.P. #17 (H401572-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/28/2014	ND	416	104	400	0.00	

Sample ID: PAD S.P. #16 (H401572-10)

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	05/28/2014	ND	416	104	400	0.00	

Sample ID: PAD S.P. #15 (H401572-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/28/2014	ND	416	104	400	0.00	

Sample ID: PAD S.P. #7B (H401572-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	05/28/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/22/2014
Reported: 06/02/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #4B (H401572-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2014	ND	2.17	109	2.00	0.311	
Toluene*	<0.050	0.050	05/30/2014	ND	2.16	108	2.00	1.14	
Ethylbenzene*	<0.050	0.050	05/30/2014	ND	2.07	104	2.00	0.568	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.48	108	6.00	0.666	
Total BTX	<0.300	0.300	05/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	05/28/2014	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	05/29/2014	ND	198	99.2	200	0.0992	
DRO >C10-C28	<10.0	10.0	05/29/2014	ND	213	106	200	0.379	
EXT DRO >C28-C35	<10.0	10.0	05/29/2014	ND					

Surrogate: 1-Chlorooctane 94.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/22/2014
Reported: 06/02/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/20/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #6B (H401572-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2014	ND	2.12	106	2.00	0.844	
Toluene*	<0.050	0.050	05/30/2014	ND	2.11	106	2.00	1.26	
Ethylbenzene*	<0.050	0.050	05/30/2014	ND	2.04	102	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.39	106	6.00	1.82	
Total BTX	<0.300	0.300	05/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	432	16.0	05/28/2014	ND	400	100	400	3.92	

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	05/27/2014	ND	199	99.5	200	1.11	
DRO >C10-C28	<10.0	10.0	05/27/2014	ND	213	107	200	0.0136	
EXT DRO >C28-C35	<10.0	10.0	05/27/2014	ND					

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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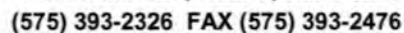
Celey D. Keene, Lab Director/Quality Manager



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

Page 10 of 11

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Page 11 of 11

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FORM-006
Revision 1.0

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

#54

June 05, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 05/29/14 12:00.

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

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

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

Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/29/2014
Reported: 06/05/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #15 (H401645-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/04/2014	ND	416	104	400	3.92	

Sample ID: PAD FLOOR #16 (H401645-02)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.98	98.9	2.00	1.28	
Toluene*	<0.050	0.050	06/05/2014	ND	2.15	108	2.00	3.58	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.94	97.0	2.00	2.80	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	6.09	101	6.00	4.91	
Total BTX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/04/2014	ND	416	104	400	3.92	

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	06/03/2014	ND	214	107	200	5.51	
DRO >C10-C28	<10.0	10.0	06/03/2014	ND	226	113	200	7.38	
EXT DRO >C28-C35	<10.0	10.0	06/03/2014	ND					

Surrogate: 1-Chlorooctane 88.5 % 65.2-140

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/29/2014
Reported: 06/05/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #16 (H401645-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctadecane	87.7 %	63.6-154							

Sample ID: PAD S. P. #20 (H401645-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/04/2014	ND	416	104	400	3.92	

Sample ID: PAD S. P. #21 (H401645-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/04/2014	ND	416	104	400	3.92	

Sample ID: PAD S. P. #22 (H401645-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/04/2014	ND	416	104	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/29/2014
 Reported: 06/05/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PAD S. P. #23 (H401645-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/04/2014	ND	400	100	400	3.92	

Sample ID: PAD S. P. #24 (H401645-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/04/2014	ND	400	100	400	3.92	

Sample ID: PAD S. P. #25 (H401645-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/04/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 05/29/2014
 Reported: 06/05/2014
 Project Name: PLU #162
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/28/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #9 (H401645-09)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.98	98.9	2.00	1.28	
Toluene*	<0.050	0.050	06/05/2014	ND	2.15	108	2.00	3.58	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.94	97.0	2.00	2.80	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	6.09	101	6.00	4.91	
Total BTX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/04/2014	ND	400	100	400	3.92	

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	06/03/2014	ND	214	107	200	5.51	
DRO >C10-C28	<10.0	10.0	06/03/2014	ND	226	113	200	7.38	
EXT DRO >C28-C35	<10.0	10.0	06/03/2014	ND					

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/29/2014
Reported: 06/05/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD FLOOR #10 (H401645-10)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.98	98.9	2.00	1.28	
Toluene*	<0.050	0.050	06/05/2014	ND	2.15	108	2.00	3.58	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.94	97.0	2.00	2.80	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	6.09	101	6.00	4.91	
Total BTX	<0.300	0.300	06/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 89.5-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/04/2014	ND	400	100	400	3.92	

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	06/03/2014	ND	214	107	200	5.51	
DRO >C10-C28	<10.0	10.0	06/03/2014	ND	226	113	200	7.38	
EXT DRO >C28-C35	<10.0	10.0	06/03/2014	ND					

Surrogate: 1-Chlorooctane 98.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/29/2014
Reported: 06/05/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 05/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PAD S. P. #18 (H401645-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	06/04/2014	ND	400	100	400	3.92		

Sample ID: PAD S. P. #19 (H401645-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/04/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's Section 106 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: <i>[Signature]</i> Date: 5/27/14 Time: 1700		Received By: <i>[Signature]</i> Date: 5/29/14 Time: 1700		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS: <i>BTEX if TPH < 5.000</i> Please email results to bjarguio@basinenv.com, Tony Savoie, Jody Walters & Amy Ruth	
Relinquished By: <i>[Signature]</i> Date: 5/29/14 Time: 1700		Received By: <i>[Signature]</i> Date: 5/29/14 Time: 1700		Sample Condition: Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: <i>[Signature]</i> (Initials)	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Temperature: <i>-4.8°C</i>		FORM-006	

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

Company Name: Basin Environmental Service Technologies, LLC				BILL TO				ANALYSIS REQUEST																					
Project Manager: Ben Arguijo				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
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. Marland																									
Project #: Project Owner: BOPCO, LP				City: Carlsbad																									
Project Name: PLU #162				State: NM Zip: 88220																									
Project Location: Eddy Co., NM				Phone #: (432)556-8730																									
Sampler Name: Billy Blackwood				Fax #:																									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
H401645																													
9		Pad Floor #9		G		1		X				X		5/28/14		0930		X X X											
10		Pad Floor #10		G		1		X				X		5/28/14		0935		X X X											
11		Pad S.P. #18		G		1		X				X		5/28/14		0940		X											
12		Pad S.P. #19		G		1		X				X		5/28/14		0945		X											

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Relinquished By:		Date: 5/28/14		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
<i>[Signature]</i>		Time: 1700		<i>[Signature]</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 5/29/14		Received By:		REMARKS: Please email results to bjarguijo@basinenv.com, Tony Savoie, Jody Walters & Amy Ruth			
<i>[Signature]</i>		Time: 1000		<i>[Signature]</i>					
Delivered By: (Circle One)		Time: 12:00		Sample Condition					
Sampler - UPS - Bus - Other: FORM-006		-4.8°C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) <i>[Signature]</i>			

Revision 1.0

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

#54



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

June 10, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 06/03/14 8:40.

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

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

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/03/2014
Reported: 06/10/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 06/02/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. P. #7C (H401684-01)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41	
Total BTX	<0.300	0.300	06/06/2014	ND					

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	80.0	16.0	06/04/2014	ND	416	104	400	3.92	

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	06/07/2014	ND	173	86.6	200	0.423	
DRO >C10-C28	<10.0	10.0	06/07/2014	ND	169	84.7	200	3.40	
EXT DRO >C28-C35	<10.0	10.0	06/07/2014	ND					

Surrogate: 1-Chlorooctane 68.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 71.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>[Signature]</i> Date: <i>6/2/14</i> Time: <i>1700</i>		Received By: <i>[Signature]</i> Date: <i>6/2/14</i> Time: <i>0730</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: <i>run TPH+BTEx if CI ≤ 1000</i> Please email results to bjarguijo@basinenv.com , Tony Savoie, Jody Walters & Amy Ruth	
Relinquished By: <i>[Signature]</i> Date: <i>6/2/14</i> Time: <i>0730</i>		Received By: <i>[Signature]</i> Date: <i>6/2/14</i> Time: <i>0730</i>		CHECKED BY: <i>[Signature]</i> (Initials)	
Delivered By: (Circle One) <i>BT-Blakewell</i> Sampler - UPS - Bus - Other: <i>8:40</i> FORM-006		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		1.8°C	

verbal changes:
#54



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

June 16, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #162

Enclosed are the results of analyses for samples received by the laboratory on 06/09/14 9:50.

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

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

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

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/09/2014
Reported: 06/16/2014
Project Name: PLU #162
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 06/06/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP #9A (H401740-01)

BTX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2014	ND	2.10	105	2.00	2.72	
Toluene*	<0.050	0.050	06/12/2014	ND	2.25	113	2.00	3.44	
Ethylbenzene*	<0.050	0.050	06/12/2014	ND	2.03	102	2.00	3.01	
Total Xylenes*	<0.150	0.150	06/12/2014	ND	6.28	105	6.00	3.21	
Total BTX	<0.300	0.300	06/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	06/12/2014	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	06/13/2014	ND	174	86.9	200	3.98	
DRO >C10-C28	<10.0	10.0	06/13/2014	ND	172	85.9	200	5.65	
EXT DRO >C28-C35	<10.0	10.0	06/13/2014	ND					

Surrogate: 1-Chlorooctane 68.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: <i>[Signature]</i> Date: <i>6/6/14</i> Time: <i>1700</i>		Received By: <i>[Signature]</i> Date: <i>6/9/14</i> Time: <i>0750</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS:	
Relinquished By: <i>[Signature]</i> Date: <i>6/9/14</i> Time: <i>0750</i>		Received By: <i>[Signature]</i> Date: <i>6/9/14</i> Time: <i>0950</i>		****Run TPH if chloride is <= 1,000. Run BTEX if TPH is <= 5,000.**** Please email results to bjarguijo@basinenv.com , Tony Savoie, Jody Walters & Amy Ruth	
Delivered By: (Circle One) <i>DK Slavum</i> Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>	

Revision 1.0

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

-3.2%

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