

# *Basin Environmental Service Technologies, LLC*

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## **REMEDIATION SUMMARY AND RISK-BASED SITE CLOSURE REQUEST**

**BOPCO, LP  
POKER LAKE UNIT #347H  
Eddy County, New Mexico  
Unit Letter "C" (NE/NW), Section 11, Township 25 South, Range 30 East  
Latitude 32.15100° North, Longitude 104.85560° West  
NMOCD Reference #2RP-2527**

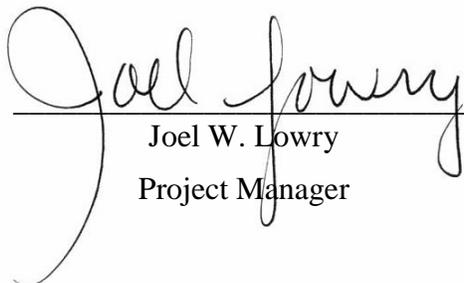
Prepared For:

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

Prepared By:

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

**March 2015**

  
Joel W. Lowry  
Project Manager

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## 1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary and Risk-Based Site Closure Request* for the release site known as Poker Lake Unit #347H (PLU #347H). The legal description of the release site is Unit Letter "C" (NE/NW), Section 11, Township 25 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.15100° North latitude and 104.85560° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). A "Site Location Map" is provided as Figure 1.

On September 20, 2014, BOPCO discovered a release had occurred at the PLU #347H. Failure of a two inch (2") hammer union at the well head resulted in the release of approximately sixty-five barrels (65 bbls) of crude oil and twelve barrels (12 bbls) of produced water. The "Release Notification and Corrective Action" (Form C-141) indicated a combination of rain water, crude oil and produced water affected approximately twenty-seven thousand, two hundred square feet (27,200 ft<sup>2</sup>) of caliche well pad and adjacent lease road, along with fifty-three thousand, seven hundred square feet (53,700 ft<sup>2</sup>) of pasture area. During initial response activities approximately five barrels (5 bbls) of crude oil and two barrels (2 bbls) of produced water were recovered along with forty barrels (40 bbls) of potential rain water mixture. 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 11, Township 25 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred twenty-five feet (225') below ground surface (bgs). Based on the New Mexico Oil Conservation Division (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') feet of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the PLU #347H release site has an initial ranking score of ten (10) points. The soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) – 50 mg/Kg (ppm)
- Total Petroleum Hydrocarbons (TPH) – 5,000 mg/Kg (ppm)

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

### **3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES**

On September 24, 2014, Basin conducted an initial investigation at the release site. During the initial investigation, representative soil samples were collected from the affected well pad, bar ditch and pasture area in an effort to determine the nature and extent of soil impact.

Twenty (20) soil samples (SP #1 @ Surface, SP #1 @ 18", SP #2 @ Surface, SP #2 @ 6", SP #3 @ Surface, SP #3 @ 18", SP #4 @ Surface, SP #4 @ 6", SP #5 @ Surface, SP #5 @ 6", SP #6 @ Surface, SP #6 @ 6", SP #7 @ Surface, SP #7 @ 6", SP #8 @ Surface, SP #8 @ 6", SP #9 @ Surface-WC, SP #9 @ 6", SP #10 @ Surface and SP #10 @ 6") were collected from the affected pasture area in the western portion of the release site and submitted the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil samples SP #3 @ 18" and SP #8 @ 6" to 18,086 ppm for soil sample SP #6 @ Surface. Each of the submitted soil samples exhibited TPH concentrations below NMOCD regulatory guidelines with the exception of soil samples SP #5 @ Surface, SP #6 @ Surface, SP #7 @ Surface and SP #9 @ Surface. Soil samples SP #1 @ Surface, SP #1 @ 18", SP #2 @ Surface, SP #3 @ Surface, SP #4 @ Surface, SP #5 @ Surface, SP #6 @ Surface, SP #7 @ Surface, SP #8 @ Surface, SP #9 @ Surface, SP #9 @ 6" and SP #10 @ Surface were also analyzed for concentrations of chloride. Laboratory analytical results indicated chloride concentration were less than the laboratory MDL in each of the submitted soil samples with the exception of soil sample SP #1 @ 18", which exhibited a chloride concentrations of 64.0 ppm. Based on laboratory analytical results, it was determined that the affected pasture in the western portion of the release site had not been impacted above NMOCD regulatory guidelines with the exception of areas characterized by soil samples SP #5, SP #6, SP #7 and SP #9. A summary of "Concentrations of Benzene, BTEX, TPH & Chloride in Soil" is provided in Table 1. A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

Ten (10) soil samples (Ditch 1 @ Surface, Ditch 1 @ 6", Ditch 2 @ Surface, Ditch 2 @ 6", Ditch 3 @ Surface, Ditch 3 @ 6", Ditch 4 @ Surface, Ditch 4 @ 6", Ditch 5 @ Surface-WC and Ditch 5 @ 6") were collected from the affected bar ditch in the southern portion of the release site and submitted the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory method detection limit (MDL) for soil sample Ditch 4 @ Surface to 7,124 ppm for soil sample Ditch 2 @ Surface. Each of the submitted soil samples exhibited TPH concentrations below NMOCD regulatory guidelines with the exception of soil samples Ditch 2 @ Surface and Ditch 5 @ 6". Soil samples Ditch 1 @ Surface, Ditch 2 @ Surface, Ditch 3 @ Surface, Ditch 4 @ Surface, Ditch 5 @ Surface and Ditch 5 @ 6" were also analyzed for concentrations of chloride. Laboratory analytical results indicated chloride concentration were less than the laboratory MDL in each of the submitted soil samples with the exception of soil sample Ditch 3 @ Surface, which exhibited a chloride concentration of 112 ppm. Based on laboratory analytical results, it was determined that the affected bar ditch in the southern portion of the release site had not been impacted above

NMOCD regulatory guidelines with the exception of areas characterized by soil samples Ditch 2 and Ditch 5.

Four (4) soil samples (WP #3 @ Surface, WP #3 @ 6", WP #4 @ Surface and WP #4 @ 6") were collected from the affected well pad at the release site and submitted the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL for soil sample WP #4 @ 6" to 4,870 ppm for soil sample WP #3 @ Surface. Each of the submitted soil samples exhibited TPH concentrations below NMOCD regulatory guidelines. Soil samples WP #3 @ Surface and WP #4 @ Surface were also analyzed for concentrations of chloride which were determined to be less than the laboratory MDL and 64.0 ppm respectively.

On September 26, 2014, affected areas outside the caliche well pad were treated with a Micro-Blaze<sup>®</sup> solution in an effort to enhance bioremediation and natural attenuation of hydrocarbon-impacted soils and vegetation.

On September 30, 2014, twenty-seven (27) additional soil samples (WP #1 @ Surf., WP #1 @ 6", WP #1 @ 3', WP #2 @ Surf., WP #2 @ 1', WP #1a @ 1', WP #1a @ 3', WP #1b @ 1', WP #1b @ 3', S. of WP #1 @ 1', S. of WP #1 @ 3', W. of WP #1 @ 1', W. of WP #1 @ 3', WW of WP #1 @ 1', WW of WP #1 @ 3', S. of Well Head @ 1', S. of Well Head @ 3', WP #2a @ 1', WP #2a @ 3', WP #2b @ 1', WP #2b @ 3', S. of WP #2 @ 1', S. of WP #2 @ 3', E. of WP #2 @ 1', E. of WP #2 @ 3', SW Well Head @ 1' and SW Well Head @ 3') were collected from the affected caliche well pad and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil sample WP #2b @ 1' to 5,840 ppm for soil sample S. of WP #2 @ 1'. Each of the submitted soil samples exhibited chloride concentrations below NMOCD regulatory guidelines with the exception of soil samples WP #1 @ 6", WP #2 @ 1', W. of WP #1 @ 1', WP #2a @ 1', SP #2a @ 3', S. of WP #2 @ 1', S. of WP #2 @ 3' and SW Well Head @ 1'. It was unclear as to whether chloride impacted soils discovered during the September 30, sampling event were related to the immediate release, a historical release or an illegal dump.

On December 10, 2014, three (3) soil samples (Past. WC #1, Past WC #2 and Past WC #3) were collected from the "worst case" areas within the affected pasture to measure the effects of the Micro-Blaze<sup>®</sup> treatment. Each of the collected soil samples was submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX concentrations were less than the appropriate laboratory MDL in each of the submitted soil samples. TPH concentration ranged from 4,984 ppm for soil sample Past. WC #1 to 20,280 ppm for soil sample Past. WC #2. Chloride concentrations ranged from less than the laboratory MDL for soil samples Past. WC #1 and Past. WC #3 to 32.0 ppm for soil sample Past. WC #2.

On December 12, 2014, Basin began excavating impacted soil on the caliche well pad at the release site. The excavation sidewalls were advanced until field test results suggested concentrations of BTEX, TPH and chloride were less than NMOCD regulatory guidelines. The floor of the excavation was advanced until field test results suggested concentrations of BTEX, TPH and chloride were less than NMOCD regulatory guidelines or three feet (3') bgs, whichever was less. Excavated soil was stockpiled on-site, pending final disposition.

On December 15, 2014, nine (9) confirmation soil samples (NSW #1, SSW #1, ESW #1, ESW #2, ESW #3, E. Floor #1, E. Floor #2, E. Floor #3 and E. Floor #4) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples ESW #2, E. Floor #3 and E. Floor #4 to 352 ppm for soil sample SSW #1. Soil sample E. Floor #3 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. The excavation was advanced toward the west.

On December 17, 2014, four (4) confirmation soil samples (NOFL NSW #2, NOFL N. Floor #2, NOWH Floor #1 and NOWH Floor #2) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 128 ppm for soil sample NOFL NSW #2 to 1,340 ppm for soil sample NOWH Floor #1. Soil sample NOWH Floor #2 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. The excavation was advanced toward the west.

On December 18, 2014, six (6) confirmation soil samples (NFL S. Floor #3, NFL SSW #3, NFL N. Floor #3, NFL NSW #3, NFL WSW #1 and NFL W. Floor #1) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil sample NFL N. Floor #3 to 512 ppm for soil sample NFL W. Floor #1. Soil sample NOWH Floor #2 was also analyzed for concentrations of BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. The excavation was advanced toward the west.

On December 19, 2014, three (3) confirmation soil samples (NOFL WSW #2, NOFL SSW #4 and NOFL S. Floor #4) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples NOFL SSW #4 and NOFL S. Floor #4 to 256 ppm for soil sample NOFL WSW #2.

In addition, a delineation trench (TT-1) was advanced in the area characterized by soil sample NOWH Floor #1. During the advancement of the delineation trench, three (3) soil samples (TT-1 @ 4', TT-1 @ 6' and TT-1 @ 8') were collected and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 1,040 ppm for soil sample TT-1 @ 4' to less than the laboratory MDL for soil sample TT-1 @ 12'. Excavation activities continued on the south side of the flow line.

On January 5, 2015, four (4) soil samples (SFL WSW #1, SFL SSW #2, SFL W. Floor #1 and SFL S. Floor #2) were collected from the excavated area and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the laboratory MDL for soil samples SFL W. Floor #1 and SFL S. Floor #2 to 320 ppm for soil sample SFL WSW #1.

On January 7, 2015, three (3) confirmation soil samples (SFL WSW #2, SFL SSW #3 and SFL S. Floor #3) were collected from the excavated area and submitted to the laboratory for analysis

of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 304 ppm for soil sample SFL S. Floor #3 to 752 ppm for soil sample SFL WSW #2.

On January 8, 2015, a twenty-millimeter (20-mm) polyethylene liner measuring one hundred feet (100') by one hundred feet (100') was placed on the floor of the excavation around the well head. The liner was extended over areas exhibiting chloride concentrations above NMOCD regulatory guidelines characterized by soil samples NOWH Floor #1 and TT-1 @ 4'. This engineering control was designed to inhibit the vertical migration of contaminants left in-situ as well as mitigate and future releases. A one-foot (1') layer of pad-sand was installed above and below the liner to help maintain its integrity during backfilling activities. Upon installing polyethylene liner, the excavation was backfilled with locally purchase, non-impacted material.

On January 14, 2015, six (6) soil samples (WC #1a @ Surf., WC #1a @ 6", WC #2a @ Surf., WC #2a @ 6", WC #3a @ Surf. and WC #3a @ 6") were collected from the "worst case" areas within the affected pasture to measure the effects of the Micro- Blaze<sup>®</sup> treatment. Each of the collected soil samples was submitted to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentration ranged from 88.6 ppm for soil sample WC #1a @ Surf. to 5,170 ppm for soil sample WC #3a @ Surf. Soil samples WC #1a @ Surf., WC #2a @ Surf. and WC #3a @ Surf. were also analyzed for concentrations of BTEX, which were determined to be less than the appropriate laboratory MDL. Soil samples WC #1a @ 6", WC #2a @ 6" and WC #3a @ 6" were analyzed for concentration of chloride, which were determined to be less than the laboratory MDL. Laboratory analytical results suggest hydrocarbon impacted soils within the affected pasture area appear to be naturally attenuating.

Between December 17, 2014, and January 13, 2015, approximately two thousand, seven hundred eighty cubic yards (2,780 yd<sup>3</sup>) of impacted material was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal. The final dimensions of the excavation on the south side of the pump jack were twenty-five (25) to thirty feet (30') in width, two hundred feet (200') in length and four feet (4') in depth. The final dimensions of the excavation on the north side of the pump jack were twenty-five (25) to thirty-five feet (35') in width, two hundred feet (200') in length and four feet (4') in depth.

Check for vegetative growth. Resample pasture in spring?

#### **4.0 QA/QC PROCEDURES**

##### **4.1 Soil Sampling**

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

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

##### **4.2 Decontamination of Equipment**

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

Confirmation soil samples collected from the floor and sidewalls of the excavated area on the PLU #347H well pad were analyzed by an NMOCD-approved laboratory, which determined concentrations of BTEX, TPH and chloride were less than NMOCD regulatory guidelines in each of the submitted soil samples, with the exception of soil samples NOWH Floor #1 and TT-1 @ 4'. A twenty-millimeter (20-mm) polyethylene liner was installed in the floor of the excavation atop affected soil exhibiting chloride concentrations above NMOCD regulatory guidelines in the areas represented by soil samples NOWH Floor #1 and TT-1 @ 4'. **Laboratory analytical results from soil samples collected from the affected pasture suggests that the area was not effected by chloride and that the hydrocarbon impacted soils are naturally attenuating.** Based on these laboratory analytical results and the installation of an approved engineering control, Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary and Risk-Based Site Closure Request* and request the NMOCD grant site closure to the PLU #347H release site.

### **6.0 LIMITATIONS**

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

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

## **7.0 DISTRIBUTION:**

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

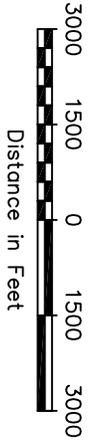
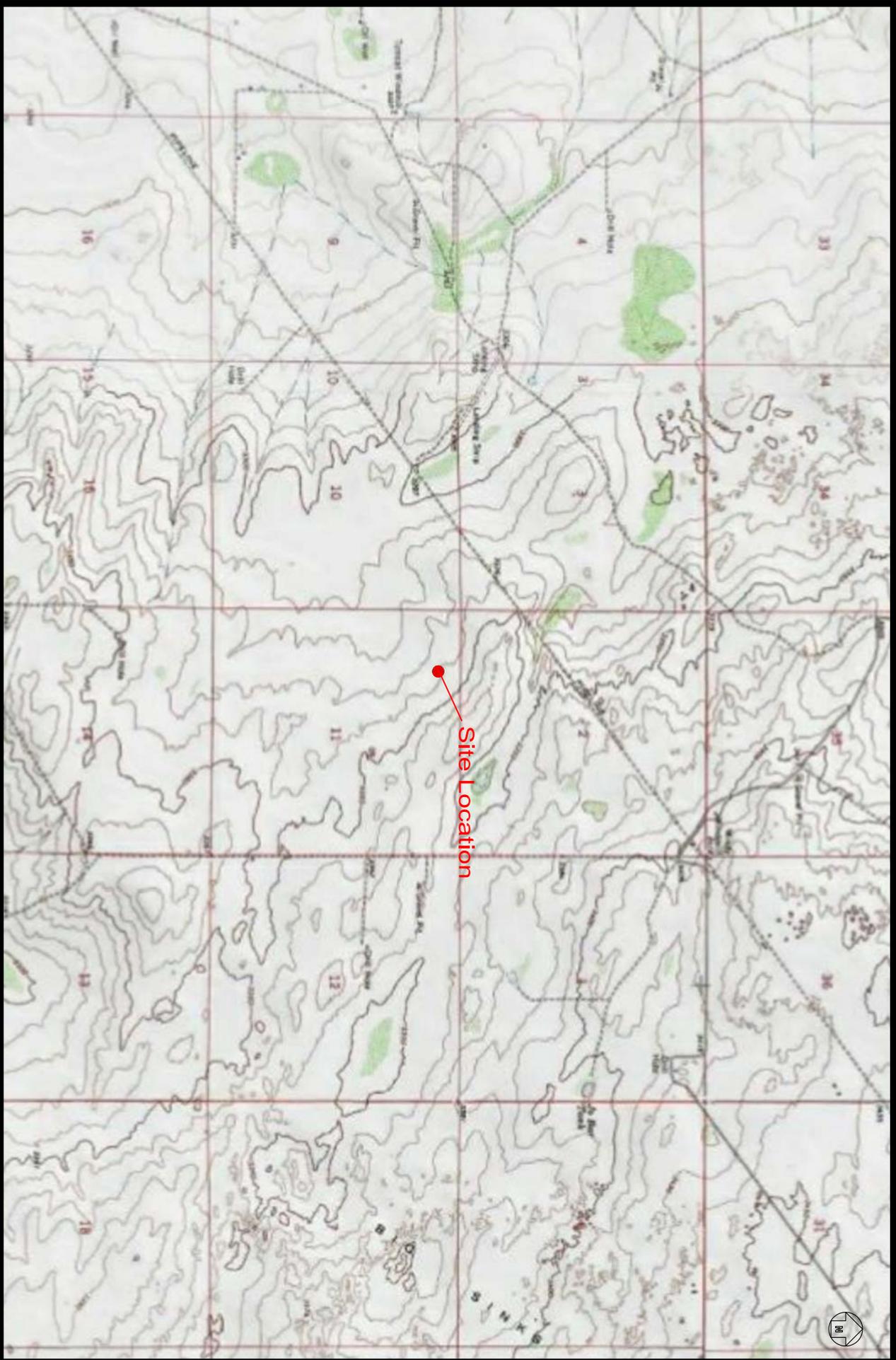
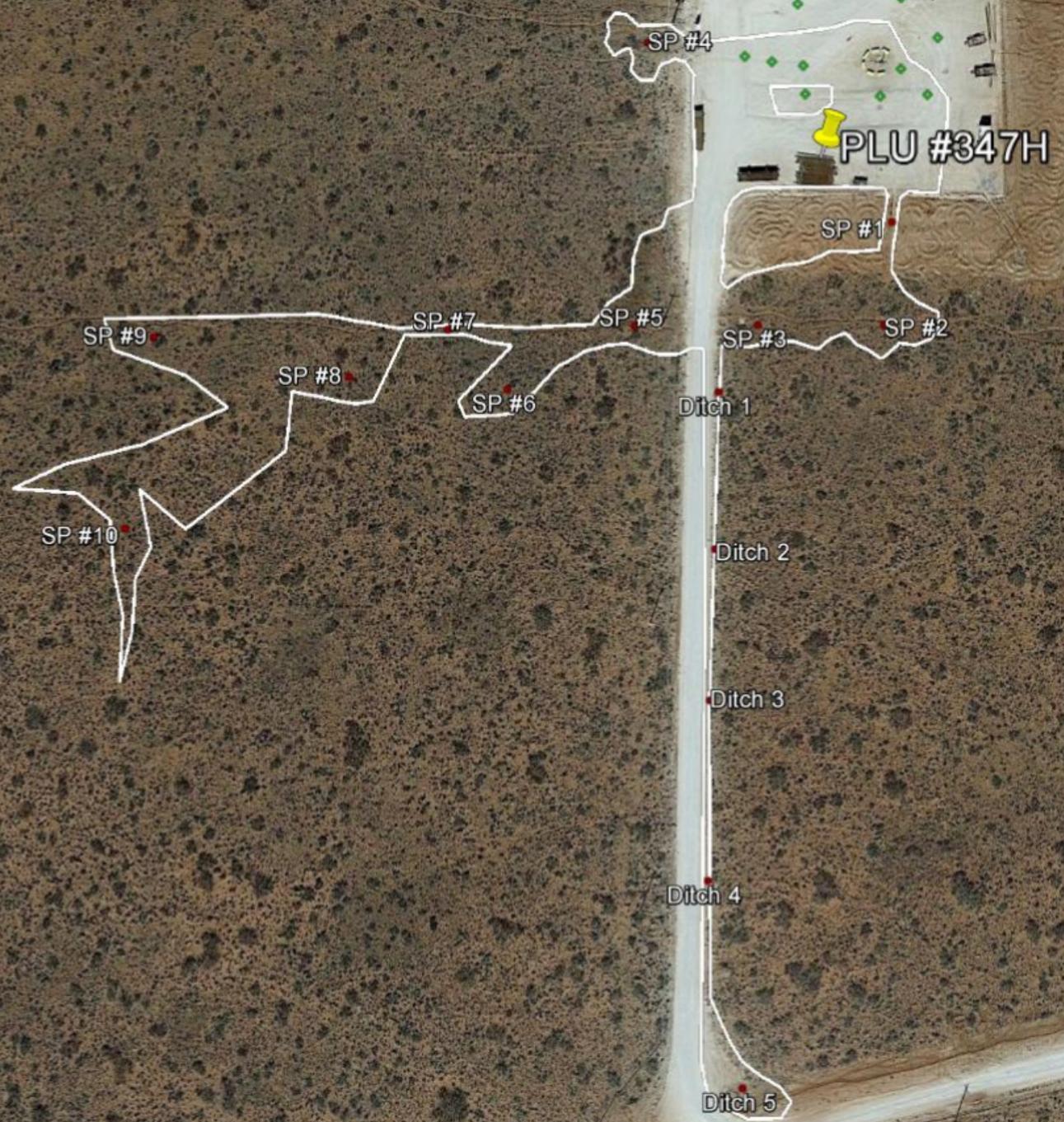


Figure 1  
 Site Location Map  
 BOPCO, LP  
 Poker Lake Unit 347H  
 Eddy County, New Mexico  
 NMOCD Ref# 2RP-2527

Basin Environmental Service Technologies

Prep By: JWL  
 March 4, 2015  
 Checked By: BJA  
 Scale 1"=3000'





October 03, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 09/30/14 10:00.

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](http://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, flowing 'C' and 'K'.

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: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: DITCH 1 SURFACE (H402975-01)**

| 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            | 10/01/2014 | 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 |  |
| <b>GRO C6-C10</b>                    | <b>10.7</b>  | 10.0            | 10/01/2014 | ND              | 192 | 96.2       | 200           | 3.58 |           |  |
| <b>DRO &gt;C10-C28</b>               | <b>2500</b>  | 10.0            | 10/01/2014 | ND              | 206 | 103        | 200           | 2.67 |           |  |
| <b>EXT DRO &gt;C28-C35</b>           | <b>464</b>   | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>105 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>213 %</i> | <i>52.1-176</i> |            |                 |     |            |               |      |           |  |

**Sample ID: DITCH 1 @ 6" (H402975-02)**

| TPH 8015M                            |               | mg/kg           |            | Analyzed By: ms |     |            |               |      |           |  |
|--------------------------------------|---------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte                              | Result        | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10                           | <10.0         | 10.0            | 10/01/2014 | ND              | 192 | 96.2       | 200           | 3.58 |           |  |
| <b>DRO &gt;C10-C28</b>               | <b>55.4</b>   | 10.0            | 10/01/2014 | ND              | 206 | 103        | 200           | 2.67 |           |  |
| <b>EXT DRO &gt;C28-C35</b>           | <b>18.2</b>   | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>93.2 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>101 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |      |           |  |

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

 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: DITCH 2 @ SURFACE (H402975-03)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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 |  |
| <b>GRO C6-C10</b>                    | <b>124</b>   | 10.0            | 10/01/2014 | ND              | 192 | 96.2       | 200           | 3.58 |           |  |
| <b>DRO &gt;C10-C28</b>               | <b>5860</b>  | 10.0            | 10/01/2014 | ND              | 206 | 103        | 200           | 2.67 |           |  |
| <b>EXT DRO &gt;C28-C35</b>           | <b>1140</b>  | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>128 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>191 %</i> | <i>52.1-176</i> |            |                 |     |            |               |      |           |  |

**Sample ID: DITCH 2 @ 6" (H402975-04)**

| TPH 8015M                            |               | mg/kg           |            | Analyzed By: ms |     |            |               |      |           |  |
|--------------------------------------|---------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte                              | Result        | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10                           | <10.0         | 10.0            | 10/01/2014 | ND              | 192 | 96.2       | 200           | 3.58 |           |  |
| <b>DRO &gt;C10-C28</b>               | <b>331</b>    | 10.0            | 10/01/2014 | ND              | 206 | 103        | 200           | 2.67 |           |  |
| <b>EXT DRO &gt;C28-C35</b>           | <b>71.7</b>   | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>94.2 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>111 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |      |           |  |

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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: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: DITCH 3 @ SURFACE (H402975-05)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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            | 10/01/2014 | ND              | 192 | 96.2       | 200           | 3.58 |           |
| <b>DRO &gt;C10-C28</b>               | <b>16.9</b> | 10.0            | 10/01/2014 | ND              | 206 | 103        | 200           | 2.67 |           |
| EXT DRO >C28-C35                     | <10.0       | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |             | 92.1 %          | 47.2-157   |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 103 %           | 52.1-176   |                 |     |            |               |      |           |

**Sample ID: DITCH 3 @ 6" (H402975-06)**

| TPH 8015M                            |             | mg/kg           |            | Analyzed By: ms |     |            |               |      |           |
|--------------------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | <10.0       | 10.0            | 10/01/2014 | ND              | 192 | 96.2       | 200           | 3.58 |           |
| <b>DRO &gt;C10-C28</b>               | <b>11.0</b> | 10.0            | 10/01/2014 | ND              | 206 | 103        | 200           | 2.67 |           |
| EXT DRO >C28-C35                     | <10.0       | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |             | 93.8 %          | 47.2-157   |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 101 %           | 52.1-176   |                 |     |            |               |      |           |

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**Analytical Results For:**

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 P.O. Box 301  
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 Fax To: (575) 396-1429

 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: DITCH 4 @ SURFACE (H402975-07)**

| Chloride, SM4500CI-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            | 10/01/2014      | 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            | 10/01/2014      | ND              | 194 | 97.2       | 200           | 4.49 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 10/01/2014      | ND              | 208 | 104        | 200           | 6.33 |           |
| EXT DRO >C28-C35                     | <10.0  | 10.0            | 10/01/2014      | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |        | <i>91.3 %</i>   | <i>47.2-157</i> |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |        | <i>96.5 %</i>   | <i>52.1-176</i> |                 |     |            |               |      |           |

**Sample ID: DITCH 4 @ 6" (H402975-08)**

| 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            | 10/01/2014      | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>18.1</b> | 10.0            | 10/01/2014      | ND              | 208 | 104        | 200           | 6.33 |           |
| EXT DRO >C28-C35                     | <10.0       | 10.0            | 10/01/2014      | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |             | <i>92.2 %</i>   | <i>47.2-157</i> |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | <i>95.2 %</i>   | <i>52.1-176</i> |                 |     |            |               |      |           |

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 JOEL LOWRY  
 P.O. Box 301  
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 Fax To: (575) 396-1429

|                   |                 |                     |               |
|-------------------|-----------------|---------------------|---------------|
| Received:         | 09/30/2014      | Sampling Date:      | 09/24/2014    |
| Reported:         | 10/03/2014      | Sampling Type:      | Soil          |
| Project Name:     | PLU #347 H      | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN      | Sample Received By: | Jodi Henson   |
| Project Location: | EDDY COUNTY, NM |                     |               |

**Sample ID: DITCH 5 @ SURFACE-WC (H402975-09)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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            | 10/01/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>589</b>    | 10.0            | 10/01/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>145</b>    | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>94.3 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>121 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |      |           |

**Sample ID: DITCH 5 @ 6" (H402975-10)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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            | 10/01/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>4060</b>   | 10.0            | 10/01/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>978</b>    | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>88.9 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>165 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |      |           |

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**Analytical Results For:**

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

 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WP #3 SURFACE (H402975-11)**

| 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            | 10/01/2014 | 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            | 10/01/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>3870</b> | 10.0            | 10/01/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>1000</b> | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | 94.4 %      | 47.2-157        |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | 171 %       | 52.1-176        |            |                 |     |            |               |      |           |

**Sample ID: WP #3 @ 6" (H402975-12)**

| 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            | 10/01/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>10.5</b> | 10.0            | 10/01/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>27.2</b> | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | 96.9 %      | 47.2-157        |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | 103 %       | 52.1-176        |            |                 |     |            |               |      |           |

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**Analytical Results For:**

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WP #4 SURFACE (H402975-13)**

| Chloride, SM4500Cl-B                 |               | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|--------------------------------------|---------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                              | Result        | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>                      | <b>64.0</b>   | 16.0            | 10/01/2014 | 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            | 10/01/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>150</b>    | 10.0            | 10/01/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>57.1</b>   | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>96.2 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>102 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |      |           |

**Sample ID: WP #4 @ 6" (H402975-14)**

| 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            | 10/01/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| DRO >C10-C28                         | <10.0         | 10.0            | 10/01/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| EXT DRO >C28-C35                     | <10.0         | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>96.3 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>99.2 %</i> | <i>52.1-176</i> |            |                 |     |            |               |      |           |

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 Fax To: (575) 396-1429

 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #1 @ SURFACE (H402975-15)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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            | 10/01/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>1490</b>  | 10.0            | 10/01/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>321</b>   | 10.0            | 10/01/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>102 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>130 %</i> | <i>52.1-176</i> |            |                 |     |            |               |      |           |

**Sample ID: SP #1 @ 18" (H402975-16)**

| Chloride, SM4500CI-B                 |               | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|--------------------------------------|---------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                              | Result        | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>                      | <b>64.0</b>   | 16.0            | 10/01/2014 | 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            | 10/02/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| DRO >C10-C28                         | <10.0         | 10.0            | 10/02/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>11.9</b>   | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>94.4 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>106 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |      |           |

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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: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #2 @ SURFACE (H402975-17)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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            | 10/02/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>3230</b> | 10.0            | 10/02/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>777</b>  | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | 95.5 %      | 47.2-157        |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | 145 %       | 52.1-176        |            |                 |     |            |               |      |           |

**Sample ID: SP #2 @ 6" (H402975-18)**

| 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            | 10/02/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>16.2</b> | 10.0            | 10/02/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>24.7</b> | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | 85.6 %      | 47.2-157        |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | 88.2 %      | 52.1-176        |            |                 |     |            |               |      |           |

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 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #3 @ SURFACE (H402975-19)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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            | 10/02/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>13.3</b> | 10.0            | 10/02/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| EXT DRO >C28-C35                     | <10.0       | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |             | 97.0 %          | 47.2-157   |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 101 %           | 52.1-176   |                 |     |            |               |      |           |

**Sample ID: SP #3 @ 18" (H402975-20)**

| 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            | 10/02/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 10/02/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| EXT DRO >C28-C35                     | <10.0  | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |        | 99.2 %          | 47.2-157   |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |        | 103 %           | 52.1-176   |                 |     |            |               |      |           |

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 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #4 SURFACE (H402975-21)**

| 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            | 10/01/2014 | 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            | 10/02/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>85.7</b> | 10.0            | 10/02/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>24.7</b> | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |             | 86.5 %          | 47.2-157   |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 94.9 %          | 52.1-176   |                 |     |            |               |      |           |

**Sample ID: SP #4 @ 6" (H402975-22)**

| 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            | 10/02/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>22.7</b> | 10.0            | 10/02/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| EXT DRO >C28-C35                     | <10.0       | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |             | 96.8 %          | 47.2-157   |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 106 %           | 52.1-176   |                 |     |            |               |      |           |

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 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #5 SURFACE (H402975-23)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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 |
| <b>GRO C6-C10</b>                    | <b>58.5</b>  | 10.0            | 10/02/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>4940</b>  | 10.0            | 10/02/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>938</b>   | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>113 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>171 %</i> | <i>52.1-176</i> |            |                 |     |            |               |      |           |

**Sample ID: SP #5 @ 6" (H402975-24)**

| 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            | 10/02/2014 | ND              | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>251</b>    | 10.0            | 10/02/2014 | ND              | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>71.1</b>   | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>95.3 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>103 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |      |           |

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 Fax To: (575) 396-1429

 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #6 SURFACE (H402975-25)**

| Chloride, SM4500CI-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            | 10/01/2014      | ND           | 400 | 100        | 400           | 0.00 |           |      |
| TPH 8015M                            |              | mg/kg           | Analyzed By: ms |              |     |            |               |      |           | S-06 |
| Analyte                              | Result       | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |      |
| <b>GRO C6-C10</b>                    | <b>516</b>   | 100             | 10/02/2014      | ND           | 194 | 97.2       | 200           | 4.49 |           |      |
| <b>DRO &gt;C10-C28</b>               | <b>15000</b> | 100             | 10/02/2014      | ND           | 208 | 104        | 200           | 6.33 |           |      |
| <b>EXT DRO &gt;C28-C35</b>           | <b>2570</b>  | 100             | 10/02/2014      | ND           |     |            |               |      |           |      |
| <i>Surrogate: 1-Chlorooctane</i>     | 208 %        | 47.2-157        |                 |              |     |            |               |      |           |      |
| <i>Surrogate: 1-Chlorooctadecane</i> | 396 %        | 52.1-176        |                 |              |     |            |               |      |           |      |

**Sample ID: SP #6 @ 6" (H402975-26)**

| 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            | 10/02/2014      | ND           | 194 | 97.2       | 200           | 4.49 |           |
| <b>DRO &gt;C10-C28</b>               | <b>502</b>  | 10.0            | 10/02/2014      | ND           | 208 | 104        | 200           | 6.33 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>89.8</b> | 10.0            | 10/02/2014      | ND           |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | 98.0 %      | 47.2-157        |                 |              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | 110 %       | 52.1-176        |                 |              |     |            |               |      |           |

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 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #7 SURFACE (H402975-27)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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 |  |
| <b>GRO C6-C10</b>                    | <b>372</b>   | 100             | 10/02/2014 | ND              | 176 | 87.8       | 200           | 8.19 |           |  |
| <b>DRO &gt;C10-C28</b>               | <b>12200</b> | 100             | 10/02/2014 | ND              | 183 | 91.5       | 200           | 7.74 |           |  |
| <b>EXT DRO &gt;C28-C35</b>           | <b>2180</b>  | 100             | 10/02/2014 | ND              |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctane</i>     |              | 183 %           | 47.2-157   |                 |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctadecane</i> |              | 314 %           | 52.1-176   |                 |     |            |               |      |           |  |

**Sample ID: SP #7 @ 6" (H402975-28)**

| 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            | 10/02/2014 | ND              | 176 | 87.8       | 200           | 8.19 |           |  |
| <b>DRO &gt;C10-C28</b>               | <b>48.3</b> | 10.0            | 10/02/2014 | ND              | 183 | 91.5       | 200           | 7.74 |           |  |
| <b>EXT DRO &gt;C28-C35</b>           | <b>19.8</b> | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctane</i>     |             | 97.5 %          | 47.2-157   |                 |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | 104 %           | 52.1-176   |                 |     |            |               |      |           |  |

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

 Received: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #8 SURFACE (H402975-29)**

| Chloride, SM4500CI-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            | 10/01/2014 | 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            | 10/02/2014 | ND              | 176 | 87.8       | 200           | 8.19 |           |
| <b>DRO &gt;C10-C28</b>               | <b>405</b> | 10.0            | 10/02/2014 | ND              | 183 | 91.5       | 200           | 7.74 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>101</b> | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |            | 99.6 %          | 47.2-157   |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |            | 125 %           | 52.1-176   |                 |     |            |               |      |           |

**Sample ID: SP #8 @ 6" (H402975-30)**

| 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            | 10/02/2014 | ND              | 176 | 87.8       | 200           | 8.19 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 10/02/2014 | ND              | 183 | 91.5       | 200           | 7.74 |           |
| EXT DRO >C28-C35                     | <10.0  | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     |        | 102 %           | 47.2-157   |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> |        | 104 %           | 52.1-176   |                 |     |            |               |      |           |

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\*=Accredited Analyte

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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: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #9 SURFACE-WC (H402975-31)**

| Chloride, SM4500CI-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            | 10/01/2014      | 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 |  |
| <b>GRO C6-C10</b>                    | <b>137</b>   | 100             | 10/02/2014      | ND              | 176 | 87.8       | 200           | 8.19 |           |  |
| <b>DRO &gt;C10-C28</b>               | <b>13300</b> | 100             | 10/02/2014      | ND              | 183 | 91.5       | 200           | 7.74 |           |  |
| <b>EXT DRO &gt;C28-C35</b>           | <b>2600</b>  | 100             | 10/02/2014      | ND              |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctane</i>     |              | <i>133 %</i>    | <i>47.2-157</i> |                 |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctadecane</i> |              | <i>703 %</i>    | <i>52.1-176</i> |                 |     |            |               |      |           |  |

**Sample ID: SP #9 @ 6" (H402975-32)**

| Chloride, SM4500CI-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            | 10/01/2014      | 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            | 10/02/2014      | ND              | 176 | 87.8       | 200           | 8.19 |           |  |
| <b>DRO &gt;C10-C28</b>               | <b>370</b>  | 10.0            | 10/02/2014      | ND              | 183 | 91.5       | 200           | 7.74 |           |  |
| <b>EXT DRO &gt;C28-C35</b>           | <b>86.0</b> | 10.0            | 10/02/2014      | ND              |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctane</i>     |             | <i>89.5 %</i>   | <i>47.2-157</i> |                 |     |            |               |      |           |  |
| <i>Surrogate: 1-Chlorooctadecane</i> |             | <i>99.3 %</i>   | <i>52.1-176</i> |                 |     |            |               |      |           |  |

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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: 09/30/2014  
 Reported: 10/03/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/24/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP #10 SURFACE (H402975-33)**

| 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            | 10/01/2014 | 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            | 10/02/2014 | ND              | 176 | 87.8       | 200           | 8.19 |           |
| <b>DRO &gt;C10-C28</b>               | <b>57.6</b>   | 10.0            | 10/02/2014 | ND              | 183 | 91.5       | 200           | 7.74 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>17.9</b>   | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>97.9 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>106 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |      |           |

**Sample ID: SP #10 @ 6" (H402975-34)**

| 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            | 10/02/2014 | ND              | 176 | 87.8       | 200           | 8.19 |           |
| <b>DRO &gt;C10-C28</b>               | <b>32.1</b>   | 10.0            | 10/02/2014 | ND              | 183 | 91.5       | 200           | 7.74 |           |
| <b>EXT DRO &gt;C28-C35</b>           | <b>11.1</b>   | 10.0            | 10/02/2014 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>93.8 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>103 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1049

**ANALYSIS REQUEST**

**BILL TO**

Company Name: Basin Environmental Service Technologies, LLC  
 Project Manager: Joel Lowry  
 Address: P.O. Box 301  
 City: Lovington State: NM Zip: 88260  
 Phone #: (575)396-2378 Fax #: (575)396-1429  
 Project #: Project Owner:  
 Project Name: PLU #347H  
 Project Location: Eddy Co., NM  
 Sampler Name: *Soil 1049*

P.O. #: Company: BOPCO, LP  
 Attn: Tony Saviole  
 Address: 522 W. Marland  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #: (432)556-8730  
 Fax #:

| Lab I.D. | Sample I.D.       | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         | PRESERV.   |            |         | DATE | TIME | Chloride | TPH (8015M) | BTEX (8021B) | HOLD FOR TPH |
|----------|-------------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|------------|---------|------|------|----------|-------------|--------------|--------------|
|          |                   |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : |      |      |          |             |              |              |
| HH02975  |                   |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1000 | X    |          |             |              |              |
|          | Ditch 1 Surf      |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1005 | X    |          |             |              |              |
|          | Ditch 1 @ 6"      |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1010 | X    |          |             |              |              |
|          | Ditch 2 @ Surf    |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1015 | X    |          |             |              |              |
|          | Ditch 2 @ 6"      |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1020 | X    |          |             |              |              |
|          | Ditch 3 @ Surf    |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1025 | X    |          |             |              |              |
|          | Ditch 3 @ 6"      |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1030 | X    |          |             |              |              |
|          | Ditch 4 @ Surf    |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1035 | X    |          |             |              |              |
|          | Ditch 4 @ 6"      |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1040 | X    |          |             |              |              |
|          | Ditch 5 @ Surf-WC |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1045 | X    |          |             |              |              |
|          | Ditch 5 @ 6"      |                   | 1            | X           |            |      |     |        |         |            |            | 9/26/14 | 1045 | X    |          |             |              |              |

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Relinquished By: *Joel Lowry* Date: *9/30/14* Time: *10:00*  
 Received By: *Joel Saviole*

Relinquished By: *Joel Lowry* Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_

Delivered By: (Circle One)  UPS  Bus  Other: \_\_\_\_\_  
 Sample Condition: Cool  Intact  Yes  No  No  No

Phone Result:  Yes  No  No  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No  No  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: \_\_\_\_\_  
 HOLD FOR TPH  
 Please email results to pm@basinenv.com, TASaviole@BassPet.com & SJWalters@BassPet.com

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

#54



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

2 of 4

|   |  |   |  |   |   |  |  |   |
|---|--|---|--|---|---|--|--|---|
| <b>Company Name:</b> Basin Environmental Service Technologies, LLC<br><b>Project Manager:</b> Joel Lowry<br><b>Address:</b> P.O. Box 301<br><b>City:</b> Lovington<br><b>Phone #:</b> (575)396-2378<br><b>Project #:</b><br><b>Project Name:</b> PLU #347H<br><b>Project Location:</b> Eddy Co., NM<br><b>Sampler Name:</b> <i>Socil Hawley</i> |  | <b>State:</b> NM<br><b>Zip:</b> 88260<br><b>Fax #:</b> (575)396-1429<br><b>Project Owner:</b><br><b>City:</b><br><b>State:</b> NIM<br><b>Zip:</b> 88220<br><b>Phone #:</b> (432)556-8730<br><b>Fax #:</b> |  | <b>BILL TO</b><br><b>P.O. #:</b><br><b>Company:</b> BOPCO, LP<br><b>Attn:</b> Tony Saviole<br><b>Address:</b> 522 W. Marland<br><b>City:</b> Carlsbad<br><b>State:</b> NIM<br><b>Zip:</b> 88220<br><b>Phone #:</b> (432)556-8730<br><b>Fax #:</b> |   | <b>ANALYSIS REQUEST</b>  |  |   |
| <b>Lab I.D.</b><br><b>Sample I.D.</b>   |  | (G)RAB OR (C)OMP.<br># CONTAINERS<br>GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE<br>OTHER :<br>ACID/BASE:<br>ICE / COOL<br>OTHER :   |  | <b>MATRIX</b><br><b>PRESERV</b><br><b>SAMPLING</b>  |   | <b>DATE</b><br><b>TIME</b>   |  | Chloride<br>TPH (8015M)<br>BTEX (8021B)<br>HOLD FOR TPH |
| H402975<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20   | WP #3 Surf<br>WP #3 @ 6"<br>WP #4 Surf<br>WP #4 @ 6"<br>SP #1 @ Surf<br>SP #1 @ 18"<br>SP #2 Surf<br>SP #2 @ 6"<br>SP #3 @ Surf<br>SP #3 @ 18" | g<br>g<br>g<br>g<br>g<br>g<br>g<br>g<br>g   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X  | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X | 9/28/14<br>9/28/14<br>9/28/14<br>9/28/14<br>9/28/14<br>9/28/14<br>9/28/14<br>9/28/14<br>9/28/14<br>9/28/14 | 905<br>910<br>915<br>920<br>925<br>930<br>935<br>940<br>945<br>950 | X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X<br>X          |

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**Relinquished By:** *Joel Lowry*      **Date:** 9/30/14  
**Time:** 10:00  
**Received By:** *Joel Saviole*  
**Time:**

**Delivered By: (Circle One)**  
 Sampler - UPS - Bus - Other: *20*  
 Sample Condition: Cool  Intact   
 Yes  No

FORM-006  
 Revision 1.0  
 t Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476  
 #54

**CHECKED BY:** *[Signature]*  
**Phone Result:**  Yes  No  
**Fax Result:**  Yes  No  
**ADD'l Phone #:**  
**ADD'l Fax #:**  
**REMARKS:**  
 HOLD FOR TPH  
 Please email results to pm@basineny.com,  
 TASaviole@BassPet.com & SJWalters@BassPet.com



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

3 of 4

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Basin Environmental Service Technologies, LLC  
 Project Manager: Joel Lowmy  
 Address: P.O. Box 301  
 City: Lovington State: NM Zip: 88260  
 Phone #: (575)396-2378 Fax #: (575)396-1429  
 Project #: Project Owner:  
 Project Name: PLU #347H  
 Project Location: Eddy Co., NM  
 Sampler Name: *Joel Lowmy*  
 P.O. #: Company: BOPCO, LP  
 Attn: Tony Savoie  
 Address: 522 W. Marland  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #: (432)556-8730  
 Fax #:

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         |            | DATE    | TIME | Chloride | TPH (8015M) | BTEX (8021B) | HOLD FOR TPH |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|---------|------|----------|-------------|--------------|--------------|
|          |             |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: |         |      |          |             |              |              |
| H402975  |             |                   |              |             |            |      |     |        |         |            |         |      |          |             |              |              |
| 21       | SP #4 Surf  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1100 | X        | X           |              |              |
| 22       | SP #4 @ 6"  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1105 | X        | X           |              |              |
| 23       | SP #5 Surf  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1110 | X        | X           |              |              |
| 24       | SP #5 @ 6"  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1115 | X        | X           |              |              |
| 25       | SP #6 Surf  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1120 | X        | X           |              |              |
| 26       | SP #6 @ 6"  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1125 | X        | X           |              |              |
| 27       | SP #7 Surf  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1130 | X        | X           |              |              |
| 28       | SP #7 @ 6"  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1135 | X        | X           |              |              |
| 29       | SP #8 Surf  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1140 | X        | X           |              |              |
| 30       | SP #8 @ 6"  | g                 | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1145 | X        | X           |              |              |

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Relinquished By: *Joel Lowmy*  
 Date: 9/30/14  
 Time: 10:00  
 Received By: *Joel Savoie*

Phone Result:  Yes  No  Add'l Phone #:  
 Fax Result:  Yes  No  Add'l Fax #:  
 REMARKS:  
 HOLD FOR TPH  
 Please email results to pm@basinenr.com,  
 TASavoie@BassPet.com & SJWalters@BassPet.com

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: *20*  
 Sample Condition  
 Cool Intact  Yes  No  
 Yes  No  No  
 CHECKED BY: *[Signature]*

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 #54



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

4044

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Basin Environmental Service Technologies, LLC  
 Project Manager: Joel Lowry  
 Address: P.O. Box 301  
 City: Lovington State: NM Zip: 88260  
 Phone #: (575)396-2378 Fax #: (575)396-1429  
 Project #: Project Owner:  
 Project Name: PLU #347H  
 Project Location: Eddy Co., NM  
 Sampler Name: *Soil (over)*  
 P.O. #: Company: BOPCO, LP  
 Attn: Tony Saviole  
 Address: 522 W. Marland  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #: (432)556-8730  
 Fax #:

| Lab I.D. | Sample I.D.   | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |      |     |        |         |            | DATE    | TIME | Chloride | TPH (8015M) | BTEX (8021B) | HOLD FOR TPH |
|----------|---------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|---------|------|----------|-------------|--------------|--------------|
|          |               |                   |              | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: |         |      |          |             |              |              |
| H402975  |               |                   |              |             |            |      |     |        |         |            |         |      |          |             |              |              |
|          | SP #9 Surf-WC |                   | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1150 | X        |             |              |              |
|          | SP #9 @ 6"    |                   | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1155 | X        |             |              |              |
|          | SP #10 Surf   |                   | 1            | X           |            |      |     |        |         |            | 9/28/14 | 1200 | X        |             |              |              |
|          | SP #10 @ 6"   |                   | 1            | X           |            |      |     |        |         |            | 9/29/14 | 1205 | X        |             |              |              |

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Relinquished By: *Joel Lowry*  
 Date: 9/30/14  
 Time: 10:00  
 Received By: *Joel Saviole*  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: *20c*  
 Sample Condition: Cool  Intact   
 Yes  No   
 CHECKED BY: *JS* (Initials)

Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS:  
 HOLD FOR TPH  
 Please email results to pm@basinenv.com,  
 TASaviole@BassPet.com & SJWalters@BassPet.com

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

#54



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

---

October 08, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 10/03/14 13:16.

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](http://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.

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: 10/03/2014  
 Reported: 10/08/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/30/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: WP #1 @ SURF. (H403035-01)**

| 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            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #1 @ 6" (H403035-02)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3520   | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #1 @ 3' (H403035-03)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 848    | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #2 @ SURF. (H403035-04)**

| 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            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

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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: 10/03/2014  
 Reported: 10/08/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/30/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: WP #2 @ 1' (H403035-05)**

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>2680</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #1A @ 1' (H403035-06)**

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>80.0</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #1A @ 3' (H403035-07)**

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>640</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #1B @ 1' (H403035-08)**

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>64.0</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #1B @ 3' (H403035-09)**

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>352</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 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: 10/03/2014  
 Reported: 10/08/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/30/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: S. OF WP #1 @ 1' (H403035-10)**

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>384</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: S. OF WP #1 @ 3' (H403035-11)**

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>416</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: W. OF WP #1 @ 1' (H403035-12)**

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>2880</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: W. OF WP #1 @ 3' (H403035-13)**

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>32.0</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WW. OF WP #1 @ 1' (H403035-14)**

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>192</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 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: 10/03/2014  
 Reported: 10/08/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/30/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: WW. OF WP #1 @ 3' (H403035-15)**

| Chloride, SM4500CI-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            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: S. OF WELL HEAD @ 1' (H403035-16)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 736    | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: S. OF WELL HEAD @ 3' (H403035-17)**

| Chloride, SM4500CI-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            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #2A @ 1' (H403035-18)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2080   | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #2A @ 3' (H403035-19)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1520   | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

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\*=Accredited Analyte

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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: 10/03/2014  
 Reported: 10/08/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/30/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: WP #2B @ 1' (H403035-20)**

| Chloride, SM4500CI-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            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: WP #2B @ 3' (H403035-21)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: S. OF WP #2 @ 1' (H403035-22)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 5840   | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: S. OF WP #2 @ 3' (H403035-23)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1180   | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: E. OF WP #2 @ 1' (H403035-24)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 224    | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

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\*=Accredited Analyte

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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: 10/03/2014  
 Reported: 10/08/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/30/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kathy Perez

**Sample ID: E. OF WP #2 @ 3' (H403035-25)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>32.0</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: SE WELL HEAD @ 1' (H403035-26)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>1040</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: SE WELL HEAD @ 3' (H403035-27)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>80.0</b> | 16.0            | 10/06/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

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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

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Cardinal Laboratories

\*=Accredited Analyte

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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**

103

|   |                  |                   |              |   |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
|---|------------------|-------------------|--------------|---|------------|------|-----|--------|----------|------------|------------|--------|---------|------|---|--|--|--|--|--|--|--|--|--|--|
| Company Name: <u>Basin</u>                  |                  | <b>BILL TO</b>    |              | <b>ANALYSIS REQUEST</b>                                 |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
| Project Manager: Joel Lowry                 |                  | P.O. #:           |              | Chloride<br>TPH (8015M)<br>BTEX (8021B)<br>HOLD FOR TPH |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
| Address: P.O. Box 301                       |                  | Company:          |              |   |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
| City: Lovington State: NM Zip: 88260        |                  | Attn:             |              |   |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
| Phone #: (575)396-2378 Fax #: (575)396-1429 |                  | Address:          |              |   |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
| Project #: Project Owner:                   |                  | City:             |              |   |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
| Project Name: PLU #347H                     |                  | State: NM Zip:    |              |   |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
| Project Location: Eddy Co., NM              |                  | Phone #:          |              |   |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
| Sampler Name: <u>SOEC LOWRY</u>             |                  | 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 |   |  |  |  |  |  |  |  |  |  |  |
| <u>H403035</u>                              |                  |                   |              |   |            |      |     |        |          |            |            |        |         |      |   |  |  |  |  |  |  |  |  |  |  |
|   | WP #1 @ Surf.    | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1000 | x |  |  |  |  |  |  |  |  |  |  |
|   | WP #1 @ 6"       | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1005 | x |  |  |  |  |  |  |  |  |  |  |
|   | WP #1 @ 3'       | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1010 | x |  |  |  |  |  |  |  |  |  |  |
|   | WP #2 @ Surf     | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1015 | x |  |  |  |  |  |  |  |  |  |  |
|   | WP #2 @ 1'       | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1020 | x |  |  |  |  |  |  |  |  |  |  |
|   | WP #1a @ 1'      | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1025 | x |  |  |  |  |  |  |  |  |  |  |
|   | WP #1a @ 3'      | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1030 | x |  |  |  |  |  |  |  |  |  |  |
|   | WP #1b @ 1'      | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1035 | x |  |  |  |  |  |  |  |  |  |  |
|   | WP #1b @ 3'      | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1040 | x |  |  |  |  |  |  |  |  |  |  |
|   | S. of WP #1 @ 1' | g                 | 1            |   |            | x    |     |        |          | x          |            |        | 9/30/14 | 1045 | x |  |  |  |  |  |  |  |  |  |  |

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|  |  |                                     |   |                |
|--|--|-------------------------------------|---|----------------|
| Relinquished By: <u>Joel Lowry</u>                                       | Date: <u>10/3/14</u>   | Received By: <u>Linda Blackwood</u> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No                | Add'l Phone #: |
| Relinquished By: <u>Linda Blackwood</u>                                  | Date: <u>10/3/14</u>   | Received By:                        | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No                  | Add'l Fax #:   |
| Delivered By: (Circle One)   | Time: <u>7:30</u>  |                                     | REMARKS:  |                |
| Sampler - UPS - Bus - Other: <u>-5.8°C</u>                               | Time: <u>7:14</u>  |                                     | HOLD FOR TPH  |                |
| Sample Condition   | CHECKED BY: (Initials)   |                                     | Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com |                |
| Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <u>KL</u>                           |   |                |

#54







December 12, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 12/11/14 11:08.

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](http://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".

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:         | 12/11/2014      | Sampling Date:      | 12/10/2014    |
| Reported:         | 12/12/2014      | Sampling Type:      | Soil          |
| Project Name:     | PLU #347 H      | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN      | Sample Received By: | Jodi Henson   |
| Project Location: | EDDY COUNTY, NM |                     |               |

**Sample ID: PAST. WC #1 (H403774-01)**

| BTEX 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           | 12/11/2014 | ND              | 2.06 | 103        | 2.00          | 0.335 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/11/2014 | ND              | 2.03 | 101        | 2.00          | 0.553 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/11/2014 | ND              | 1.91 | 95.7       | 2.00          | 1.50  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/11/2014 | ND              | 5.75 | 95.9       | 6.00          | 1.57  |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/11/2014 | ND              |      |            |               |       |           |  |

*Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154*

| 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            | 12/11/2014 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: CK |     |            |               |      |           |  |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10                 | <50.0       | 50.0            | 12/11/2014 | ND              | 197 | 98.4       | 200           | 1.87 |           |  |
| <b>DRO &gt;C10-C28</b>     | <b>4140</b> | 50.0            | 12/11/2014 | ND              | 209 | 105        | 200           | 1.93 |           |  |
| <b>EXT DRO &gt;C28-C35</b> | <b>844</b>  | 50.0            | 12/11/2014 | ND              |     |            |               |      |           |  |

*Surrogate: 1-Chlorooctane 87.6 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 139 % 52.1-176*

Cardinal Laboratories

\*=Accredited Analyte

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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: 12/11/2014  
 Reported: 12/12/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/10/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PAST. WC #2 (H403774-02)**

| BTEX 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           | 12/11/2014 | ND              | 2.06 | 103        | 2.00          | 0.335 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/11/2014 | ND              | 2.03 | 101        | 2.00          | 0.553 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/11/2014 | ND              | 1.91 | 95.7       | 2.00          | 1.50  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/11/2014 | ND              | 5.75 | 95.9       | 6.00          | 1.57  |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/11/2014 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |  |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| <b>Chloride</b>      | <b>32.0</b> | 16.0            | 12/11/2014 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M                  |              | mg/kg           |            | Analyzed By: CK |     |            |               |      |           |  | S-06 |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|------|
| Analyte                    | Result       | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |      |
| GRO C6-C10                 | <50.0        | 50.0            | 12/11/2014 | ND              | 197 | 98.4       | 200           | 1.87 |           |  |      |
| <b>DRO &gt;C10-C28</b>     | <b>16800</b> | 50.0            | 12/11/2014 | ND              | 209 | 105        | 200           | 1.93 |           |  |      |
| <b>EXT DRO &gt;C28-C35</b> | <b>3480</b>  | 50.0            | 12/11/2014 | ND              |     |            |               |      |           |  |      |

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 330 % 52.1-176

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\*=Accredited Analyte

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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: 12/11/2014  
 Reported: 12/12/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/10/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PAST. WC #3 (H403774-03)**

| BTEX 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           | 12/11/2014 | ND              | 2.06 | 103        | 2.00          | 0.335 |           |
| Toluene*       | <0.050 | 0.050           | 12/11/2014 | ND              | 2.03 | 101        | 2.00          | 0.553 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/11/2014 | ND              | 1.91 | 95.7       | 2.00          | 1.50  |           |
| Total Xylenes* | <0.150 | 0.150           | 12/11/2014 | ND              | 5.75 | 95.9       | 6.00          | 1.57  |           |
| Total BTEX     | <0.300 | 0.300           | 12/11/2014 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

| 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            | 12/11/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: CK |     |            |               |      |           |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                 | <50.0       | 50.0            | 12/11/2014 | ND              | 197 | 98.4       | 200           | 1.87 |           |
| <b>DRO &gt;C10-C28</b>     | <b>6940</b> | 50.0            | 12/11/2014 | ND              | 209 | 105        | 200           | 1.93 |           |
| <b>EXT DRO &gt;C28-C35</b> | <b>1600</b> | 50.0            | 12/11/2014 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 88.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 172 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

|                                |  |                               |  |                  |  |
|--------------------------------|--|-------------------------------|--|------------------|--|
| Company Name: Joel Lowry       |  | P.O. #: BOPCO, LP             |  | ANALYSIS REQUEST |  |
| Project Manager: P.O. Box 301  |  | Company: BOPCO, LP            |  |                  |  |
| Address: Lovington             |  | Attn: Tony Saviole            |  |                  |  |
| City: Lovington                |  | Address: State: NM Zip: 88260 |  |                  |  |
| Phone #: (575)396-2378         |  | City: State: NM Zip:          |  |                  |  |
| Project #: PLU #347H           |  | Phone #:                      |  |                  |  |
| Project Location: Eddy Co., NM |  | Fax #:                        |  |                  |  |
| Sampler Name: FOR LAB USE ONLY |  | PRESERV:                      |  |                  |  |
| Lab I.D. Sample I.D.           |  | SAMPLING                      |  |                  |  |
| HH03774                        |  | DATE                          |  | TIME             |  |
| 1                              |  | 12/10/14                      |  | 230              |  |
| 2                              |  | 12/10/14                      |  | 235              |  |
| 3                              |  | 12/10/14                      |  | 240              |  |
| Past. WC #1                    |  | g                             |  | x                |  |
| Past. WC #2                    |  | g                             |  | x                |  |
| Past. WC #3                    |  | g                             |  | x                |  |
| (G)RAB OR (C)OMP.              |  | # CONTAINERS                  |  |                  |  |
| GROUNDWATER                    |  | WASTEWATER                    |  |                  |  |
| SOIL                           |  | OIL                           |  |                  |  |
| SLUDGE                         |  | OTHER :                       |  |                  |  |
| ACID/BASE:                     |  | ICE / COOL                    |  |                  |  |
| OTHER :                        |  |                               |  |                  |  |
| Chloride                       |  | TPH (8015M)                   |  | BTEX (8021B)     |  |
| HOLD FOR TPH                   |  |                               |  |                  |  |
|                                |  |                               |  | + AA Rush        |  |

FORM-006  
 Revision 1.0

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

#54

Please email results to pm@basinenv.com,  
 TASaviole@basspet.com, acruhh@basspet.com

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

REMARKS:

Relinquished By: *Joel Lowry* Date: 12-11-14 Time: 12:30  
 Received By: *Joel Saviole* Date: 12-11-14 Time: 11:08  
 Delivered By: (Circle One)  UPS  Bus  Other:  -1.86  
 Sample Condition: Cool  Intact  Yes  No  
 CHECKED BY: *Joel Saviole*

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

---

December 23, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 12/16/14 13:35.

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](http://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.

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: 12/16/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/15/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NSW #1 (H403827-01)**

| Chloride, SM4500CI-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            | 12/18/2014 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SSW #1 (H403827-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 352    | 16.0            | 12/18/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: ESW #1 (H403827-03)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 12/18/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: ESW #2 (H403827-04)**

| Chloride, SM4500CI-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            | 12/18/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

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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: 12/16/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/15/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: ESW #3 (H403827-05)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>32.0</b> | 16.0            | 12/18/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: E. FLOOR #1 (H403827-06)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>80.0</b> | 16.0            | 12/18/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: E. FLOOR #2 (H403827-07)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>96.0</b> | 16.0            | 12/18/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

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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: 12/16/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/15/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: E. FLOOR #3 (H403827-08)**

| 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           | 12/19/2014 | ND              | 1.81 | 90.7       | 2.00          | 8.31 |           |  |
| Toluene*       | <0.050 | 0.050           | 12/19/2014 | ND              | 1.79 | 89.7       | 2.00          | 8.41 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 12/19/2014 | ND              | 1.69 | 84.4       | 2.00          | 9.67 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 12/19/2014 | ND              | 5.07 | 84.5       | 6.00          | 10.4 |           |  |
| Total BTEX     | <0.300 | 0.300           | 12/19/2014 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

| 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            | 12/18/2014 | 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            | 12/17/2014 | ND              | 212 | 106        | 200           | 1.65  |           |  |
| DRO >C10-C28     | <10.0  | 10.0            | 12/17/2014 | ND              | 196 | 98.2       | 200           | 0.529 |           |  |
| EXT DRO >C28-C35 | <10.0  | 10.0            | 12/17/2014 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 87.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.7 % 52.1-176

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\*=Accredited Analyte

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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: 12/16/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/15/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: E. FLOOR #4 (H403827-09)**
**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            | 12/18/2014 | ND           | 400 | 100        | 400           | 0.00 |           |

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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



---

Celey D. Keene, Lab Director/Quality Manager





December 23, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 13:30.

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|                  |                              |
|------------------|------------------------------|
| 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, prominent "C" and "K".

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: 12/18/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/17/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NOFL NSW #2 (H403868-01)**

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>128</b> | 16.0            | 12/19/2014 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: NOFL NORTH FLOOR #2 (H403868-02)**

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>288</b> | 16.0            | 12/19/2014 | ND              | 432 | 108        | 400           | 3.77 |           |

**Sample ID: NOWH FLOOR #1 (H403868-03)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>1340</b> | 16.0            | 12/19/2014 | ND              | 432 | 108        | 400           | 3.77 |           |

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\*=Accredited Analyte

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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: 12/18/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/17/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NOWH FLOOR #2 (H403868-04)**

| 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           | 12/22/2014 | ND              | 1.75 | 87.5       | 2.00          | 8.93 |           |
| Toluene*       | <0.050 | 0.050           | 12/22/2014 | ND              | 1.73 | 86.3       | 2.00          | 9.59 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/22/2014 | ND              | 1.63 | 81.6       | 2.00          | 10.7 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/22/2014 | ND              | 4.90 | 81.7       | 6.00          | 11.5 |           |
| Total BTEX     | <0.300 | 0.300           | 12/22/2014 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 208    | 16.0            | 12/19/2014 | ND              | 432 | 108        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10       | <10.0  | 10.0            | 12/22/2014 | ND              | 191 | 95.3       | 200           | 4.92 |           |
| DRO >C10-C28     | <10.0  | 10.0            | 12/22/2014 | ND              | 204 | 102        | 200           | 1.30 |           |
| EXT DRO >C28-C35 | <10.0  | 10.0            | 12/22/2014 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 82.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 79.5 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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- RPD Relative Percent Difference
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- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager





December 23, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 12/19/14 11:15.

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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.

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: 12/19/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/18/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Celey D. Keene

**Sample ID: NFL S. FLOOR #3 (H403891-01)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 320    | 16.0            | 12/22/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: NFL SSW #3 (H403891-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 304    | 16.0            | 12/22/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: NFL N. FLOOR #3 (H403891-03)**

| Chloride, SM4500CI-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            | 12/22/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: NFL NSW #3 (H403891-04)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 208    | 16.0            | 12/22/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

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

 Received: 12/19/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/18/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Celey D. Keene

**Sample ID: NFL WSW #1 (H403891-05)**

| Chloride, SM4500Cl-B |             | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>96.0</b> | 16.0            | 12/22/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: NFL W. FLOOR #1 (H403891-06)**

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>512</b> | 16.0            | 12/22/2014 | ND              | 400 | 100        | 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |



---

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**

| Company Name:                               |                | BILL TO            |                                 |             |            |      |     |        |         |            |            | ANALYSIS REQUEST  |          |          |      |  |  |  |  |  |  |
|---|----------------|--------------------|---------------------------------|-------------|------------|------|-----|--------|---------|------------|------------|---|----------|----------|------|--|--|--|--|--|--|
| Project Manager: Joel Lowry                 |                | P.O. #:            |                                 |             |            |      |     |        |         |            |            | Chloride<br>TPH (8015M)<br>BTEX (8021B)<br>HOLD FOR TPH |          |          |      |  |  |  |  |  |  |
| 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:           |                                 |             |            |      |     |        |         |            |            |   |          |          |      |  |  |  |  |  |  |
| Project #: Project Owner:                   |                | City:              |                                 |             |            |      |     |        |         |            |            |   |          |          |      |  |  |  |  |  |  |
| Project Name: PLU #347H                     |                | State: NM Zip:     |                                 |             |            |      |     |        |         |            |            |   |          |          |      |  |  |  |  |  |  |
| Project Location: Eddy Co., NM              |                | Phone #:           |                                 |             |            |      |     |        |         |            |            |   |          |          |      |  |  |  |  |  |  |
| Sampler Name: <i>Steve Taylor</i>           |                | Fax #:             |                                 |             |            |      |     |        |         |            |            |   |          |          |      |  |  |  |  |  |  |
| FOR LAB USE ONLY                            | Lab I.D.       | Sample I.D.        | (G/RAB OR (C)/OMP. # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER :   | SAMPLING | DATE     | TIME |  |  |  |  |  |  |
|   | <i>H103891</i> | NFL S. Floor #3    | g 1                             |             |            | x    |     |        |         | x          |            |   |          | 12/18/14 |      |  |  |  |  |  |  |
|   | <i>2</i>       | NFL SSW #3         | g 1                             |             |            | x    |     |        |         | x          |            |   |          | 12/18/14 |      |  |  |  |  |  |  |
|   | <i>3</i>       | NFL N. Floor #3    | g 1                             |             |            | x    |     |        |         | x          |            |   |          | 12/18/14 |      |  |  |  |  |  |  |
|   | <i>4</i>       | NFL NSW #3         | g 1                             |             |            | x    |     |        |         | x          |            |   |          | 12/18/14 |      |  |  |  |  |  |  |
|   | <i>5</i>       | NFL WSW #1         | g 1                             |             |            | x    |     |        |         | x          |            |   |          | 12/18/14 |      |  |  |  |  |  |  |
|   | <i>6</i>       | NFL W. Floor #1    | g 1                             |             |            | x    |     |        |         | x          |            |   |          | 12/18/14 |      |  |  |  |  |  |  |

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|                                     |   |                                  |  |                |
|-------------------------------------|---|----------------------------------|--|----------------|
| Relinquished By: <i>Joel Lowry</i>  | Date: <i>12-19-14</i>   | Received By: <i>Tony Savoie</i>  | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No             | Add'l Phone #: |
|                                     | Time: <i>10:30</i>  |                                  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No               | Add'l Fax #:   |
| Relinquished By: <i>Tony Savoie</i> | Date: <i>12-19-14</i>   | Received By: <i>Celia Kleepe</i> | REMARKS:   |                |
|                                     | Time: <i>11:15</i>  |                                  | Please email results to pm@basinenv.com, TASavoie@BassPet.com, acruith@basspet.com |                |
| Delivered By: (Circle One)          | Sample Condition  | CHECKED BY: (Initials)           |  |                |
| Sampler - UPS - Bus - Other:        | Cool Intact<br><input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No <input type="checkbox"/> No | <i>CS</i>                        |  |                |

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

*#54*



December 23, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 12/22/14 15:00.

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](http://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, flowing "C" and "K".

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: 12/22/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/19/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: TT - 1 @ 4' (H403911-01)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1040   | 16.0            | 12/23/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: TT - 1 @ 8' (H403911-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 544    | 16.0            | 12/23/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: TT - 1 @ 12' (H403911-03)**

| Chloride, SM4500CI-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            | 12/23/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: NOFL WSW #2 (H403911-04)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 256    | 16.0            | 12/23/2014 | ND              | 400 | 100        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

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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: 12/22/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/19/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NOFL SSW #4 (H403911-05)**
**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            | 12/23/2014 | ND           | 400 | 100        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

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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: 12/22/2014  
 Reported: 12/23/2014  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/19/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NOFL S. FLOOR #4 (H403911-06)**

| 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           | 12/23/2014 | ND              | 1.87 | 93.4       | 2.00          | 4.37 |           |
| Toluene*       | <0.050 | 0.050           | 12/23/2014 | ND              | 1.85 | 92.3       | 2.00          | 4.87 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 12/23/2014 | ND              | 1.68 | 83.9       | 2.00          | 8.18 |           |
| Total Xylenes* | <0.150 | 0.150           | 12/23/2014 | ND              | 4.99 | 83.1       | 6.00          | 9.33 |           |
| Total BTEX     | <0.300 | 0.300           | 12/23/2014 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

| 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            | 12/23/2014 | 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            | 12/23/2014 | ND              | 192 | 95.9       | 200           | 0.542 |           |
| DRO >C10-C28     | <10.0  | 10.0            | 12/23/2014 | ND              | 186 | 93.1       | 200           | 0.738 |           |
| EXT DRO >C28-C35 | <10.0  | 10.0            | 12/23/2014 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 98.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 114 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager





January 12, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 01/07/15 11:10.

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](http://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".

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: 01/07/2015  
 Reported: 01/12/2015  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/05/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SFL WSW #1 (H500040-01)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 320    | 16.0            | 01/08/2015 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SFL SSW #2 (H500040-02)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 01/08/2015 | ND              | 416 | 104        | 400           | 0.00 |           |

**Sample ID: SFL W. FLOOR #1 (H500040-03)**

| Chloride, SM4500CI-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            | 01/08/2015 | ND              | 416 | 104        | 400           | 0.00 |           |

Cardinal Laboratories

\*=Accredited Analyte

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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: 01/07/2015  
 Reported: 01/12/2015  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/05/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SFL S. FLOOR #2 (H500040-04)**

| 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           | 01/09/2015 | ND              | 1.72 | 86.1       | 2.00          | 5.71 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/09/2015 | ND              | 1.69 | 84.6       | 2.00          | 7.04 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/09/2015 | ND              | 1.63 | 81.6       | 2.00          | 8.36 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/09/2015 | ND              | 4.91 | 81.8       | 6.00          | 8.55 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/09/2015 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 61-154

| Chloride, SM4500CI-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            | 01/08/2015 | 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            | 01/08/2015 | ND              | 190 | 94.9       | 200           | 1.64  |           |  |
| DRO >C10-C28     | <10.0  | 10.0            | 01/08/2015 | ND              | 177 | 88.5       | 200           | 0.912 |           |  |
| EXT DRO >C28-C35 | <10.0  | 10.0            | 01/08/2015 | ND              |     |            |               |       |           |  |

Surrogate: 1-Chlorooctane 89.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.0 % 52.1-176

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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |



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Celey D. Keene, Lab Director/Quality Manager





January 09, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 01/08/15 9:10.

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](http://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.

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: 01/08/2015  
 Reported: 01/09/2015  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/07/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SFL WSW #2 (H500052-01)**

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>752</b> | 16.0            | 01/08/2015 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: SFL SSW #3 (H500052-02)**

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>576</b> | 16.0            | 01/08/2015 | ND              | 400 | 100        | 400           | 0.00 |           |

**Sample ID: SFL S. FLOOR #3 (H500052-03)**

| Chloride, SM4500CI-B |            | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>304</b> | 16.0            | 01/08/2015 | ND              | 400 | 100        | 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



---

Celey D. Keene, Lab Director/Quality Manager





January 20, 2015

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #347 H

Enclosed are the results of analyses for samples received by the laboratory on 01/15/15 10:00.

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](http://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".

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: 01/15/2015  
 Reported: 01/20/2015  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/14/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WC #1A @ SURFACE (H500141-01)**

| 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           | 01/19/2015 | ND              | 1.79 | 89.5       | 2.00          | 13.9 |           |  |
| Toluene*       | <0.050 | 0.050           | 01/19/2015 | ND              | 1.81 | 90.4       | 2.00          | 16.3 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 01/19/2015 | ND              | 1.77 | 88.5       | 2.00          | 14.9 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 01/19/2015 | ND              | 5.33 | 88.8       | 6.00          | 14.6 |           |  |
| Total BTEX     | <0.300 | 0.300           | 01/19/2015 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

| 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            | 01/16/2015 | ND              | 181 | 90.6       | 200           | 6.29 |           |  |
| <b>DRO &gt;C10-C28</b>     | <b>70.6</b> | 10.0            | 01/16/2015 | ND              | 184 | 91.9       | 200           | 12.1 |           |  |
| <b>EXT DRO &gt;C28-C35</b> | <b>18.0</b> | 10.0            | 01/16/2015 | ND              |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 120 % 52.1-176

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\* = Accredited Analyte

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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: 01/15/2015  
 Reported: 01/20/2015  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/14/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WC #1A @ 6" (H500141-02)**

| 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            | 01/16/2015 | ND           | 432             | 108        | 400           | 3.77 |           |
| TPH 8015M                            |              |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
| Analyte                              | Result       | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | <10.0        | 10.0            | 01/16/2015 | ND           | 181             | 90.6       | 200           | 6.29 |           |
| DRO >C10-C28                         | <10.0        | 10.0            | 01/16/2015 | ND           | 184             | 91.9       | 200           | 12.1 |           |
| EXT DRO >C28-C35                     | <10.0        | 10.0            | 01/16/2015 | ND           |                 |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>103 %</i> | <i>47.2-157</i> |            |              |                 |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>111 %</i> | <i>52.1-176</i> |            |              |                 |            |               |      |           |

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\*=Accredited Analyte

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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: 01/15/2015  
 Reported: 01/20/2015  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/14/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WC #2A @ SURFACE (H500141-04)**

| 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           | 01/19/2015 | ND              | 1.79 | 89.5       | 2.00          | 13.9 |           |
| Toluene*       | <0.050 | 0.050           | 01/19/2015 | ND              | 1.81 | 90.4       | 2.00          | 16.3 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/19/2015 | ND              | 1.77 | 88.5       | 2.00          | 14.9 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/19/2015 | ND              | 5.33 | 88.8       | 6.00          | 14.6 |           |
| Total BTEX     | <0.300 | 0.300           | 01/19/2015 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 61-154

| 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            | 01/16/2015 | ND              | 181 | 90.6       | 200           | 6.29 |           |
| <b>DRO &gt;C10-C28</b>     | <b>396</b> | 10.0            | 01/16/2015 | ND              | 184 | 91.9       | 200           | 12.1 |           |
| <b>EXT DRO &gt;C28-C35</b> | <b>159</b> | 10.0            | 01/16/2015 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 98.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 131 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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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: 01/15/2015  
 Reported: 01/20/2015  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/14/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WC #2A @ 6" (H500141-05)**

| 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            | 01/16/2015 | ND              | 432 | 108        | 400           | 3.77 |           |
| TPH 8015M                            |              | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
| Analyte                              | Result       | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                           | <10.0        | 10.0            | 01/16/2015 | ND              | 181 | 90.6       | 200           | 6.29 |           |
| DRO >C10-C28                         | <10.0        | 10.0            | 01/16/2015 | ND              | 184 | 91.9       | 200           | 12.1 |           |
| EXT DRO >C28-C35                     | <10.0        | 10.0            | 01/16/2015 | ND              |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>104 %</i> | <i>47.2-157</i> |            |                 |     |            |               |      |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>123 %</i> | <i>52.1-176</i> |            |                 |     |            |               |      |           |

Cardinal Laboratories

\*=Accredited Analyte

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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: 01/15/2015  
 Reported: 01/20/2015  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/14/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WC #3A @ SURFACE (H500141-07)**

| 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           | 01/19/2015 | ND              | 1.79 | 89.5       | 2.00          | 13.9 |           |
| Toluene*       | <0.050 | 0.050           | 01/19/2015 | ND              | 1.81 | 90.4       | 2.00          | 16.3 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/19/2015 | ND              | 1.77 | 88.5       | 2.00          | 14.9 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/19/2015 | ND              | 5.33 | 88.8       | 6.00          | 14.6 |           |
| Total BTEX     | <0.300 | 0.300           | 01/19/2015 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

| TPH 8015M                  |             | mg/kg           |            | Analyzed By: MS |     |            |               |       |           | S-06 |
|----------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|------|
| Analyte                    | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |      |
| GRO C6-C10                 | <50.0       | 50.0            | 01/16/2015 | ND              | 191 | 95.7       | 200           | 0.192 |           |      |
| <b>DRO &gt;C10-C28</b>     | <b>4110</b> | 50.0            | 01/16/2015 | ND              | 203 | 101        | 200           | 1.87  |           |      |
| <b>EXT DRO &gt;C28-C35</b> | <b>1060</b> | 50.0            | 01/16/2015 | ND              |     |            |               |       |           |      |

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 198 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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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: 01/15/2015  
 Reported: 01/20/2015  
 Project Name: PLU #347 H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/14/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WC #3A @ 6" (H500141-08)**

| 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            | 01/16/2015 | ND              | 432 | 108        | 400           | 3.77  |           |
| TPH 8015M                            |               | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
| Analyte                              | Result        | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10                           | <10.0         | 10.0            | 01/16/2015 | ND              | 191 | 95.7       | 200           | 0.192 |           |
| DRO >C10-C28                         | <10.0         | 10.0            | 01/16/2015 | ND              | 203 | 101        | 200           | 1.87  |           |
| EXT DRO >C28-C35                     | <10.0         | 10.0            | 01/16/2015 | ND              |     |            |               |       |           |
| <i>Surrogate: 1-Chlorooctane</i>     | <i>97.7 %</i> | <i>47.2-157</i> |            |                 |     |            |               |       |           |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>113 %</i>  | <i>52.1-176</i> |            |                 |     |            |               |       |           |

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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



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**

**OPERATOR**

Initial Report  Final Report

|  |   |
|--|---|
| Name of Company: BOPCO, L.P.                           | Contact: Bradley Blevins                  |
| Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220 | Telephone No. 575-887-7329                |
| Facility Name: PLU 347                                 | Facility Type: Exploration and Production |

|                        |                        |                      |
|------------------------|------------------------|----------------------|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 30-015-38668 |
|------------------------|------------------------|----------------------|

**LOCATION OF RELEASE**

| Unit Letter | Section | Township | Range | Feet from the | <u>North</u> /South Line | Feet from the | East/ <u>West</u> Line | County |
|-------------|---------|----------|-------|---------------|--------------------------|---------------|------------------------|--------|
| C           | 11      | 25S      | 30E   | 540           |                          | 1440          |                        | Eddy   |

Latitude: 32.15100 Longitude: 103.85560

**NATURE OF RELEASE**

|  |   |  |
|--|---|--|
| Type of Release: Crude oil and Produced Water  | Volume of Release: 65 barrels crude oil and 12 barrels PW   | Volume Recovered: 5 barrels crude oil and 2 barrels PW |
| Source of Release: 2 inch hammer union on wellhead   | Date and Hour of Occurrence: 9-20-14 time unknown   | Date and Hour of Discovery: 9-20-14 @ 10:50am          |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? First reported to EHS at 11:56am as 5 barrels crude oil floating on rain water on location. Could not access until 8:00am on 9-22-14 due to heavy flooding rains. Reported correction and release amounts to Heather in person 8:00am on 9-22-14 Tony S. |  |
| By Whom? Tony Savoie   | Date and Hour   |  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse.   |  |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
A hammer union leaked on wellhead, connection was re tightened.

Describe Area Affected and Cleanup Action Taken.\*  
The release impacted approximately 27,200 sq feet of the caliche pad and lease road, 53,700 sq feet of pasture area that was flooded with a combination of rain water and crude oil. The entire impacted area was sampled on 9-24-14. The crude oil impacted areas was treated twice with micro blace on 9-26-14. The chloride impacted area on pad was excavated and hauled to a state approved facility. A 20 mil liner was place in the floor of the excavation and backfilled with clean topsoil and caliche.

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:  | <b>OIL CONSERVATION DIVISION</b>      |                                   |
| Printed Name: Bradley Blevins  | Approved by Environmental Specialist: |                                   |
| Title: Assistant Remediation Foreman   | Approval Date:                        | Expiration Date:                  |
| E-mail Address: bblevins@basspet.com   | Conditions of Approval:               | Attached <input type="checkbox"/> |
| Date: 2-5-2016   | Phone: 432-214-3704                   |                                   |