



RECEIVED

By OCD District 1 at 2:24 pm, Oct 07, 2015

September 29, 2015

APPROVED

By OCD District 1 at 2:24 pm, Oct 07, 2015

Ms. Kellie Jones
NMOCD District I
1625 N. French Dr.
Hobbs, NM 88240

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

ARTESIA
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Artesia, New Mexico 88210
Phone 575.746.8768
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HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
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OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

SAN ANTONIO
11 Commercial Place
Schertz, Texas 78154
Phone 210.265.8025
Fax 210.568.2191

Subject: **Soil Assessment and Remediation Work Plan**
LRE Operating, LLC
NOWATA AGR State #001 TB
30-025-31244

Dear Ms. Jones:

LRE Operating, LLC has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced NOWATA AGR State #001 TB release. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

May 24, 2014

Background Information

The NOWATA AGR State #001 TB is located approximately twenty-four (24) miles northwest of Hobbs in Lea County, New Mexico. The legal location for this site is Section 9, Township 18 South, and Range 35 East. More specifically the latitude and longitude for the release are 32.7573739 North and -103.4571457 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Kimbrough-Lea land complex. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Quaternary and Tertiary Age sedimentary deposits, is comprised of calcareous-loamy alluvium and calcareous-loamy eolian sands which includes silty soils underlain by sedimentary rock and hard caliche. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S9-T18S-R35E. The ground water in Section 9 is reported to be at depth of 72' below ground surface (bgs). See [Appendix II](#) for the referenced groundwater data.

The ranking for this site is **10** based on the following:

| | | |
|--------------------------|--------------------------------|------------|
| ENVIRONMENTAL CONSULTING | Depth to ground water | 50' - 100' |
| ENGINEERING | Wellhead Protection Area | >1000' |
| DRILLING | Distance to surface water body | >1000' |
| CONSTRUCTION | | |
| SPILL MANAGEMENT | | |
| GENERAL CONTRACTING | | |

Incident Description

A flow line ruptured causing 45 barrels of produced water to be released. The facility was shut-in and the flow line was repaired. A vacuum truck was called to the location and recovered 20 barrels of produced water. The impacted area was scraped to remove approximately 72 yards of saturated soil from the surface. The impacted soil was transported to Lea Land, LLC. A site map is presented in [Appendix I](#).

Actions Taken

On August 31, 2015 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 1' below ground surface where refusal was encountered. The complete laboratory results are presented in [Table 1](#).

On September 16, 2015 Talon personnel returned to the site to obtain deeper vertical delineation samples utilizing a backhoe to a total depth of 2.5-feet below ground surface where hard rock refusal was encountered. The complete laboratory results are presented in [Table 2](#).

On September 25, 2015 Talon personnel returned to the site to obtain deeper vertical delineation samples with a drill rig to a total depth of 15-feet below ground surface. The complete laboratory results are presented in [Table 3](#).

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per Method SM4500Cl-B.

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

September 4, 2015

Table 1

| Sample ID | Depth (feet) | BTEX (mg/kg) | Chlorides (mg/kg) | TPH (mg/kg) GRO | TPH (mg/kg) DRO |
|-------------|--------------|--------------|-------------------|-----------------|-----------------|
| S-1 Refusal | 0' | <0.300 | 18800 | <10 | 253 |
| S-2 | 0' | <0.300 | 24000 | <10 | <10 |
| Refusal | 1' | <0.300 | 13200 | <10 | <10 |
| S-3 Refusal | 0' | 142 | 11200 | 1200 | 14200 |

September 23, 2015

Table 2

| Sample ID | Depth (feet) | BTEX (mg/kg) | Chlorides (mg/kg) | TPH (mg/kg) GRO | TPH (mg/kg) DRO |
|-----------|--------------|--------------|-------------------|-----------------|-----------------|
| S-1 | 1' | <0.300 | 12100 | <10 | 20.6 |
| Refusal | 1.5 | 0.323 | 8660 | <10 | 90.8 |
| S-2 | 2' | <0.300 | 12300 | <10 | <10 |
| Refusal | 2.5' | <0.300 | 10300 | <10 | 29.3 |
| S-3 | 1' | 21.4 | 10500 | 621 | 9940 |
| Refusal | 1.5' | 3.22 | 81300 | 74.4 | 3080 |

September 25, 2015

Table 3

| Sample ID | Depth (feet) | BTEX (mg/kg) | Chlorides (mg/kg) | TPH (mg/kg) GRO | TPH (mg/kg) DRO |
|-----------|--------------|--------------|-------------------|-----------------|-----------------|
| S-1 | 3' | -- | 2560 | -- | -- |
| | 5' | -- | 96 | -- | -- |
| | 7' | -- | 96 | -- | -- |
| | 10' | -- | 176 | -- | -- |
| | 15' | -- | 48 | -- | -- |
| S-2 | 3' | -- | 6720 | -- | -- |
| | 5' | -- | 7600 | -- | -- |
| | 7' | -- | 2680 | -- | -- |
| | 10' | -- | 208 | -- | -- |
| | 15' | -- | 240 | -- | -- |
| S-3 | 3' | -- | 208 | <10 | <10 |
| | 5' | -- | 32 | <10 | <10 |
| | 7' | -- | 64 | <10 | <10 |
| | 10' | -- | 16 | -- | -- |
| | 15' | -- | 96 | -- | -- |

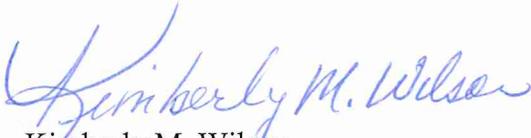
Based upon the site ranking of 10, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 1,000 mg/kg for TPH. The chloride remediation standard is considered to be 1,000 mg/kg based upon a water table depth less than 100-feet deep.

Proposed Remedial Actions

- The impacted area in the vicinity of S-1 will be excavated to a depth of 4-feet below land surface. A confirmation sample for chlorides will be obtained.
- The impacted area in the vicinity of S-2 will be excavated to a depth of 4- feet deep and a 20-mil liner will be installed.
- The impacted area in the vicinity of S-3 will be excavated to a depth of 2.5-feet deep.
- All impacted soil will be transported to Lea Land, LLC for disposal.
- Upon approval of the confirmation sample from the NMOCD, the excavated areas will then be backfilled with new top soil and contoured to match the surrounding terrain.
- A final closure report documenting all remedial actions will be provided to the OCD along with Final Form C-141.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,



Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

APPENDIX I
SITE MAP



Date: 09/21/2015

Scale: 1" = 60'

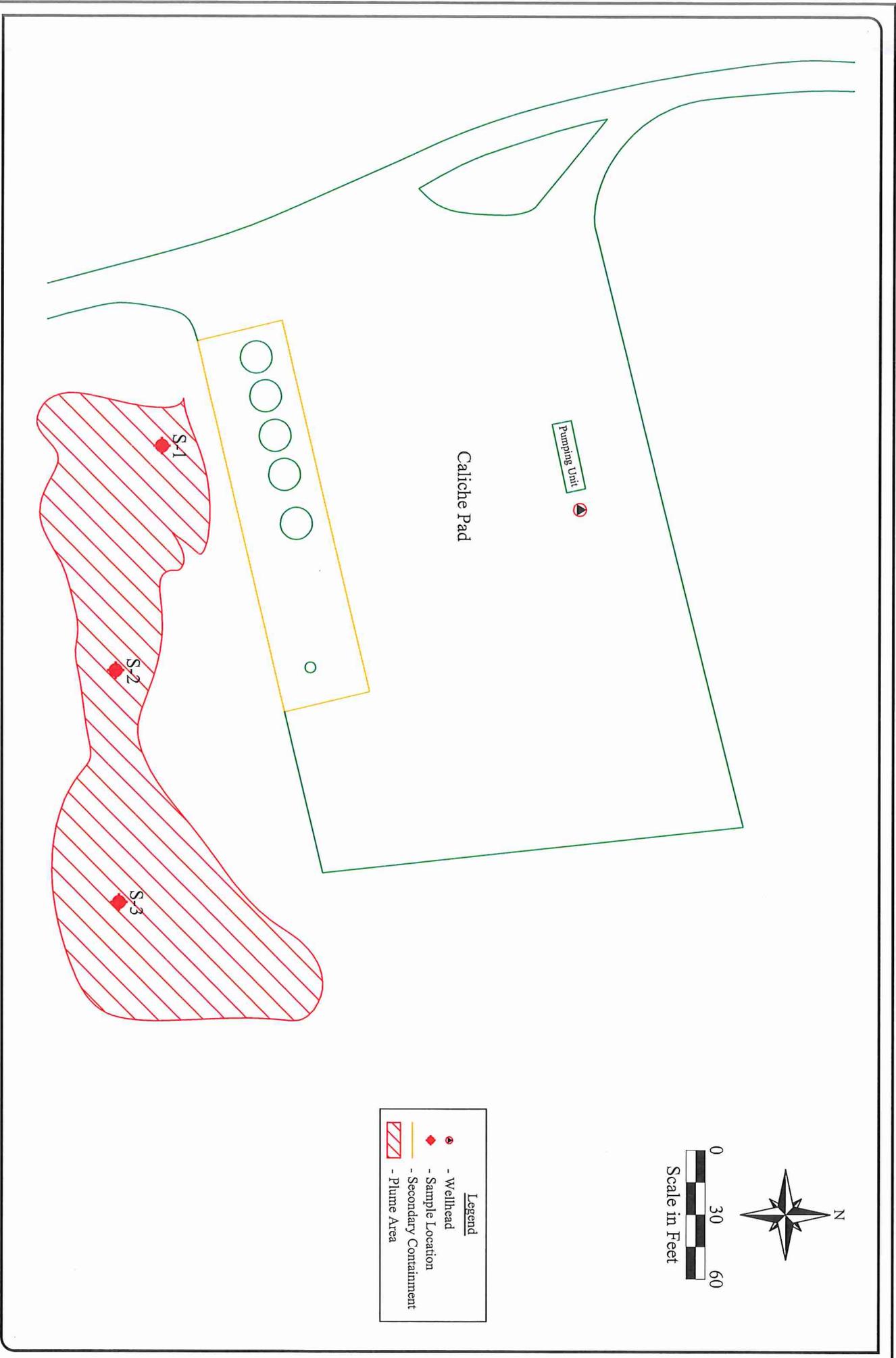
Drawn By: SMM

Nowata AGR State #1 Tank Battery

Lime Rock Resources

Lea County, NM

Figure 1 - Site Plan



| Legend | |
|--------|-------------------------|
| | - Wellhead |
| | - Sample Location |
| | - Secondary Containment |
| | - Plume Area |

APPENDIX II
GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| POD Number | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|-------------------------|--------------|-------|--------|------|------|-----|-----|-----|--------|----------|----------|----------|------------|-------------|--------------|
| L 10304 | L | LE | | 1 | 4 | 4 | 09 | 18S | 35E | 644526 | 3625479* | 282 | 170 | 72 | 98 |
| L 02676 | L | LE | | | 1 | 2 | 16 | 18S | 35E | 644231 | 3624972* | 582 | 175 | 60 | 115 |
| L 06047 | L | LE | | 2 | 2 | 1 | 16 | 18S | 35E | 643927 | 3625066* | 826 | 122 | 65 | 57 |
| L 02675 | L | LE | | | 3 | 2 | 15 | 18S | 35E | 645850 | 3624587* | 1319 | 197 | 47 | 150 |
| L 09588 | L | LE | | 4 | 3 | 4 | 16 | 18S | 35E | 644349 | 3623659* | 1663 | 155 | 84 | 71 |
| L 04206 | L | LE | | | 3 | 4 | 04 | 18S | 35E | 644194 | 3626992* | 1793 | 125 | 50 | 75 |
| L 07872 | L | LE | | 1 | 3 | 3 | 03 | 18S | 35E | 644900 | 3627101* | 1830 | 162 | 62 | 100 |
| L 02677 | L | LE | | | 3 | 4 | 15 | 18S | 35E | 645863 | 3623780* | 1881 | 194 | 54 | 140 |
| L 03772 | L | LE | | 2 | 2 | 21 | 18S | 35E | 644659 | 3623361* | 1919 | 130 | 60 | 70 | |
| L 02680 | L | LE | | 1 | 2 | 21 | 18S | 35E | 644257 | 3623357* | 1978 | 190 | 59 | 131 | |
| L 08309 | L | LE | | 1 | 2 | 2 | 10 | 18S | 35E | 646122 | 3626711* | 1999 | 112 | 49 | 63 |

Average Depth to Water: **60 feet**

Minimum Depth: **47 feet**

Maximum Depth: **84 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 644726

Northing (Y): 3625279

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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: LRE Operating | Contact: Eddie Elliot |
| Address: P.O. Box 250 Lovington, NM 88260 | Telephone No. 432-413-0429 |
| Facility Name: NOWATA AGR State #001 | Facility Type: Flowline |
| Surface Owner: State | Mineral Owner: State |
| API No. 30-025-31244 | |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| P | 09 | 18S | 35E | 860 | S | 990 | E | Lea |

Latitude 32.7573739 Longitude -103.4571457

NATURE OF RELEASE

| | | |
|--|---|---------------------------------------|
| Type of Release: Produced Water | Volume of Release: 45bbbls | Volume Recovered: 20bbbls |
| Source of Release: Flowline | Date and Hour of Occurrence: 8/28/2015 | Date and Hour of Discovery: 8/28/2015 |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? OCD-voicemail | |
| By Whom? Eddie Elliot | Date and Hour: 8/28/2015 | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A flowline ruptured causing a release of approximately 45bbbls of produced water. A vacuum truck was utilized to recover approximately 20bbbls of produced water. The impacted area was scraped to remove the saturated soil from the surface (approximately 72 yards). The impacted soil from the scrape was hauled to an NMOCD approved solid waste disposal facility.

Describe Area Affected and Cleanup Action Taken.*

The impacted area is in the pasture south of the tank battery. Talon/LPE mobilized personnel to conduct an initial site assessment and to perform soil sampling within the impacted area. A remediation work plan will be generated and submitted to NMOCD for review and approval. Upon approval of the work plan remediation activities will proceed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | | | |
|--|---------------------------------------|------------------|-----------------------------------|
| Signature:  | OIL CONSERVATION DIVISION | | |
| Printed Name: Eddie Elliot | Approved by Environmental Specialist: | | |
| Title: Production Supervisor | Approval Date: | Expiration Date: | |
| E-mail Address: eelliott@limerockresources.com | Conditions of Approval: | | Attached <input type="checkbox"/> |
| Date: 9/24/2015 | Phone: 432-413-0429 | | |

* Attach Additional Sheets If Necessary

APPENDIX III
LABORATORY RESULTS

September 04, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NO WATA TB

Enclosed are the results of analyses for samples received by the laboratory on 09/01/15 12:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|----------------|---------------------|---------------|
| Received: | 09/01/2015 | Sampling Date: | 08/31/2015 |
| Reported: | 09/04/2015 | Sampling Type: | Soil |
| Project Name: | NO WATA TB | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-1 0' (H502324-01)

| BTEX 8021B | | mg/kg | | Analyzed By: CK | | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | 0.202 | 0.050 | 09/03/2015 | ND | 1.90 | 95.1 | 2.00 | 0.227 | | |
| Toluene* | <0.050 | 0.050 | 09/03/2015 | ND | 1.74 | 86.8 | 2.00 | 0.647 | | |
| Ethylbenzene* | 0.065 | 0.050 | 09/03/2015 | ND | 1.80 | 90.1 | 2.00 | 0.934 | | |
| Total Xylenes* | <0.150 | 0.150 | 09/03/2015 | ND | 5.43 | 90.5 | 6.00 | 1.45 | | |
| Total BTEX | <0.300 | 0.300 | 09/03/2015 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 18800 | 16.0 | 09/03/2015 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | | |
|------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 09/02/2015 | ND | 187 | 93.4 | 200 | 0.402 | | |
| DRO >C10-C28 | 253 | 10.0 | 09/02/2015 | ND | 201 | 101 | 200 | 1.77 | | |

Surrogate: 1-Chlorooctane 83.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.3 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|----------------|---------------------|---------------|
| Received: | 09/01/2015 | Sampling Date: | 08/31/2015 |
| Reported: | 09/04/2015 | Sampling Type: | Soil |
| Project Name: | NO WATA TB | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-2 0' (H502324-02)

| 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 | 09/03/2015 | ND | 1.90 | 95.1 | 2.00 | 0.227 | | |
| Toluene* | <0.050 | 0.050 | 09/03/2015 | ND | 1.74 | 86.8 | 2.00 | 0.647 | | |
| Ethylbenzene* | <0.050 | 0.050 | 09/03/2015 | ND | 1.80 | 90.1 | 2.00 | 0.934 | | |
| Total Xylenes* | <0.150 | 0.150 | 09/03/2015 | ND | 5.43 | 90.5 | 6.00 | 1.45 | | |
| Total BTEX | <0.300 | 0.300 | 09/03/2015 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 24000 | 16.0 | 09/03/2015 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 09/02/2015 | ND | 190 | 94.9 | 200 | 0.159 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 09/02/2015 | ND | 206 | 103 | 200 | 0.564 | | |

Surrogate: 1-Chlorooctane 74.2 % 47.2-157
Surrogate: 1-Chlorooctadecane 78.8 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|----------------|---------------------|---------------|
| Received: | 09/01/2015 | Sampling Date: | 08/31/2015 |
| Reported: | 09/04/2015 | Sampling Type: | Soil |
| Project Name: | NO WATA TB | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-2 1' (H502324-03)

| 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 | 09/03/2015 | ND | 1.90 | 95.1 | 2.00 | 0.227 | |
| Toluene* | <0.050 | 0.050 | 09/03/2015 | ND | 1.74 | 86.8 | 2.00 | 0.647 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/03/2015 | ND | 1.80 | 90.1 | 2.00 | 0.934 | |
| Total Xylenes* | <0.150 | 0.150 | 09/03/2015 | ND | 5.43 | 90.5 | 6.00 | 1.45 | |
| Total BTEX | <0.300 | 0.300 | 09/03/2015 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 13200 | 16.0 | 09/04/2015 | ND | 432 | 108 | 400 | 7.69 | |

| TPH 8015M | | mg/kg | | Analyzed By: CK | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 09/02/2015 | ND | 190 | 94.9 | 200 | 0.159 | |
| DRO >C10-C28 | <10.0 | 10.0 | 09/02/2015 | ND | 206 | 103 | 200 | 0.564 | |

Surrogate: 1-Chlorooctane 72.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 71.0 % 52.1-176

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:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|----------------|---------------------|---------------|
| Received: | 09/01/2015 | Sampling Date: | 08/31/2015 |
| Reported: | 09/04/2015 | Sampling Type: | Soil |
| Project Name: | NO WATA TB | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-3 0' (H502324-04)

| BTEX 8021B | | mg/kg | | Analyzed By: CK | | | | | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 2.66 | 1.00 | 09/03/2015 | ND | 1.90 | 95.1 | 2.00 | 0.227 | |
| Toluene* | 26.5 | 1.00 | 09/03/2015 | ND | 1.74 | 86.8 | 2.00 | 0.647 | |
| Ethylbenzene* | 48.0 | 1.00 | 09/03/2015 | ND | 1.80 | 90.1 | 2.00 | 0.934 | |
| Total Xylenes* | 65.2 | 3.00 | 09/03/2015 | ND | 5.43 | 90.5 | 6.00 | 1.45 | |
| Total BTEX | 142 | 6.00 | 09/03/2015 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 117 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 11200 | 16.0 | 09/04/2015 | ND | 432 | 108 | 400 | 7.69 | |

| 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 | 1200 | 100 | 09/02/2015 | ND | 190 | 94.9 | 200 | 0.159 | | |
| DRO >C10-C28 | 14200 | 100 | 09/02/2015 | ND | 206 | 103 | 200 | 0.564 | | |

Surrogate: 1-Chlorooctane 195 % 47.2-157

Surrogate: 1-Chlorooctadecane 248 % 52.1-176

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*=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

September 23, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NOWATA AGR STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 09/16/15 14:52.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 09/16/2015 | Sampling Date: | 09/11/2015 |
| Reported: | 09/23/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-1 1' (H502433-01)

| 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 | 09/22/2015 | ND | 1.91 | 95.7 | 2.00 | 2.47 | | |
| Toluene* | <0.050 | 0.050 | 09/22/2015 | ND | 2.07 | 104 | 2.00 | 2.96 | | |
| Ethylbenzene* | <0.050 | 0.050 | 09/22/2015 | ND | 1.93 | 96.3 | 2.00 | 3.95 | | |
| Total Xylenes* | <0.150 | 0.150 | 09/22/2015 | ND | 6.06 | 101 | 6.00 | 3.70 | | |
| Total BTEX | <0.300 | 0.300 | 09/22/2015 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 12100 | 4.00 | 09/17/2015 | 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 | 09/21/2015 | ND | 197 | 98.7 | 200 | 3.80 | | |
| DRO >C10-C28 | 20.6 | 10.0 | 09/21/2015 | ND | 208 | 104 | 200 | 6.11 | | |

Surrogate: 1-Chlorooctane 67.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 73.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 09/16/2015 | Sampling Date: | 09/11/2015 |
| Reported: | 09/23/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-1 1.5' REFUSAL (H502433-02)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 09/22/2015 | ND | 1.91 | 95.7 | 2.00 | 2.47 | | |
| Toluene* | 0.054 | 0.050 | 09/22/2015 | ND | 2.07 | 104 | 2.00 | 2.96 | | |
| Ethylbenzene* | 0.073 | 0.050 | 09/22/2015 | ND | 1.93 | 96.3 | 2.00 | 3.95 | | |
| Total Xylenes* | 0.196 | 0.150 | 09/22/2015 | ND | 6.06 | 101 | 6.00 | 3.70 | | |
| Total BTEX | 0.323 | 0.300 | 09/22/2015 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 8660 | 4.00 | 09/17/2015 | 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 | 09/21/2015 | ND | 197 | 98.7 | 200 | 3.80 | | |
| DRO >C10-C28 | 90.8 | 10.0 | 09/21/2015 | ND | 208 | 104 | 200 | 6.11 | | |

Surrogate: 1-Chlorooctane 69.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 70.5 % 52.1-176

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Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 09/16/2015 | Sampling Date: | 09/11/2015 |
| Reported: | 09/23/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-2 2' (H502433-03)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 09/22/2015 | ND | 1.91 | 95.7 | 2.00 | 2.47 | | |
| Toluene* | <0.050 | 0.050 | 09/22/2015 | ND | 2.07 | 104 | 2.00 | 2.96 | | |
| Ethylbenzene* | <0.050 | 0.050 | 09/22/2015 | ND | 1.93 | 96.3 | 2.00 | 3.95 | | |
| Total Xylenes* | <0.150 | 0.150 | 09/22/2015 | ND | 6.06 | 101 | 6.00 | 3.70 | | |
| Total BTEX | <0.300 | 0.300 | 09/22/2015 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 12300 | 4.00 | 09/17/2015 | 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 | 09/21/2015 | ND | 197 | 98.7 | 200 | 3.80 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 09/21/2015 | ND | 208 | 104 | 200 | 6.11 | | |

Surrogate: 1-Chlorooctane 65.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 72.2 % 52.1-176

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 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 09/16/2015 | Sampling Date: | 09/11/2015 |
| Reported: | 09/23/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-2 2.5' REFUSAL (H502433-04)

| 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 | 09/22/2015 | ND | 1.91 | 95.7 | 2.00 | 2.47 | | |
| Toluene* | <0.050 | 0.050 | 09/22/2015 | ND | 2.07 | 104 | 2.00 | 2.96 | | |
| Ethylbenzene* | <0.050 | 0.050 | 09/22/2015 | ND | 1.93 | 96.3 | 2.00 | 3.95 | | |
| Total Xylenes* | <0.150 | 0.150 | 09/22/2015 | ND | 6.06 | 101 | 6.00 | 3.70 | | |
| Total BTEX | <0.300 | 0.300 | 09/22/2015 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 10300 | 4.00 | 09/17/2015 | 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 | 09/21/2015 | ND | 197 | 98.7 | 200 | 3.80 | | |
| DRO >C10-C28 | 29.3 | 10.0 | 09/21/2015 | ND | 208 | 104 | 200 | 6.11 | | |

Surrogate: 1-Chlorooctane 72.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 77.6 % 52.1-176

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Analytical Results For:

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 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 09/16/2015 | Sampling Date: | 09/11/2015 |
| Reported: | 09/23/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-3 1' (H502433-05)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | S-04 | | |
|----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.200 | 0.200 | 09/22/2015 | ND | 1.91 | 95.7 | 2.00 | 2.47 | | |
| Toluene* | 0.241 | 0.200 | 09/22/2015 | ND | 2.07 | 104 | 2.00 | 2.96 | | |
| Ethylbenzene* | 4.15 | 0.200 | 09/22/2015 | ND | 1.93 | 96.3 | 2.00 | 3.95 | | |
| Total Xylenes* | 17.0 | 0.600 | 09/22/2015 | ND | 6.06 | 101 | 6.00 | 3.70 | | |
| Total BTEX | 21.4 | 1.20 | 09/22/2015 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 173 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 10500 | 4.00 | 09/17/2015 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | S-06 | | |
|--------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 621 | 100 | 09/21/2015 | ND | 197 | 98.7 | 200 | 3.80 | | |
| DRO >C10-C28 | 9940 | 100 | 09/21/2015 | ND | 208 | 104 | 200 | 6.11 | | |

Surrogate: 1-Chlorooctane 137 % 47.2-157

Surrogate: 1-Chlorooctadecane 184 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 09/16/2015 | Sampling Date: | 09/11/2015 |
| Reported: | 09/23/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | Cool & Intact |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-3 1.5' REFUSAL (H502433-06)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | S-04 | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 09/22/2015 | ND | 1.91 | 95.7 | 2.00 | 2.47 | | |
| Toluene* | 0.056 | 0.050 | 09/22/2015 | ND | 2.07 | 104 | 2.00 | 2.96 | | |
| Ethylbenzene* | 0.780 | 0.050 | 09/22/2015 | ND | 1.93 | 96.3 | 2.00 | 3.95 | | |
| Total Xylenes* | 2.38 | 0.150 | 09/22/2015 | ND | 6.06 | 101 | 6.00 | 3.70 | | |
| Total BTEX | 3.22 | 0.300 | 09/22/2015 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 176 % 85.6-137

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 8130 | 4.00 | 09/17/2015 | 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 | 74.4 | 10.0 | 09/21/2015 | ND | 197 | 98.7 | 200 | 3.80 | | |
| DRO >C10-C28 | 3080 | 10.0 | 09/21/2015 | ND | 208 | 104 | 200 | 6.11 | | |

Surrogate: 1-Chlorooctane 95.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 117 % 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.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



September 25, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NOWATA AGR STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 09/24/15 9:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 09/24/2015 | Sampling Date: | 09/23/2015 |
| Reported: | 09/25/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | ** (See Notes) |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-1 3' (H502529-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 2560 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

Sample ID: S-1 5' (H502529-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

Sample ID: S-1 7' (H502529-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

Sample ID: S-1 10' (H502529-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 176 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 09/24/2015 | Sampling Date: | 09/23/2015 |
| Reported: | 09/25/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | ** (See Notes) |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-1 15' (H502529-05)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 48.0 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

Sample ID: S-2 3' (H502529-06)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 6720 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

Sample ID: S-2 5' (H502529-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 7600 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

Sample ID: S-2 7' (H502529-08)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 2680 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

Sample ID: S-2 10' (H502529-09)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 208 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

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 TALON LPE
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 09/24/2015 | Sampling Date: | 09/23/2015 |
| Reported: | 09/25/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | ** (See Notes) |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-2 15' (H502529-10)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 240 | 16.0 | 09/24/2015 | ND | 416 | 104 | 400 | 7.41 | | |

Sample ID: S-3 3' (H502529-11)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 208 | 16.0 | 09/24/2015 | ND | 432 | 108 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 09/25/2015 | ND | 162 | 80.9 | 200 | 1.42 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 09/25/2015 | ND | 173 | 86.3 | 200 | 0.855 | | |

| | | |
|-------------------------------|--------|----------|
| Surrogate: 1-Chlorooctane | 66.1 % | 47.2-157 |
| Surrogate: 1-Chlorooctadecane | 74.2 % | 52.1-176 |

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 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 09/24/2015 | Sampling Date: | 09/23/2015 |
| Reported: | 09/25/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | ** (See Notes) |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-3 5' (H502529-12)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|--------------------------------------|---------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 09/24/2015 | ND | 432 | 108 | 400 | 0.00 | | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 09/25/2015 | ND | 162 | 80.9 | 200 | 1.42 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 09/25/2015 | ND | 173 | 86.3 | 200 | 0.855 | | |
| <i>Surrogate: 1-Chlorooctane</i> | <i>61.1 %</i> | <i>47.2-157</i> | | | | | | | | |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>68.5 %</i> | <i>52.1-176</i> | | | | | | | | |

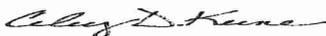
Sample ID: S-3 7' (H502529-13)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|--------------------------------------|---------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 64.0 | 16.0 | 09/24/2015 | ND | 432 | 108 | 400 | 0.00 | | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 09/25/2015 | ND | 162 | 80.9 | 200 | 1.42 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 09/25/2015 | ND | 173 | 86.3 | 200 | 0.855 | | |
| <i>Surrogate: 1-Chlorooctane</i> | <i>68.8 %</i> | <i>47.2-157</i> | | | | | | | | |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>75.1 %</i> | <i>52.1-176</i> | | | | | | | | |

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 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 09/24/2015 | Sampling Date: | 09/23/2015 |
| Reported: | 09/25/2015 | Sampling Type: | Soil |
| Project Name: | NOWATA AGR STATE #1 | Sampling Condition: | ** (See Notes) |
| Project Number: | 70130708001 | Sample Received By: | Judy Garcia |
| Project Location: | LEA COUNTY, NM | | |

Sample ID: S-3 10' (H502529-14)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 16.0 | 16.0 | 09/24/2015 | ND | 432 | 108 | 400 | 0.00 | | |

Sample ID: S-3 15' (H502529-15)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 09/24/2015 | ND | 432 | 108 | 400 | 0.00 | | |

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BIENITO

ANALYSIS REQUEST

Company Name: Talon/LPE
 Project Manager: DAVID ADLUS
 Address: 408 W. Texas Ave. State: NM zip: 88210
 City: Artesia Phone #: 575-746-8768 Fax #: 575-746-8905
 Project #: 701307.080.01 Project Owner: LRE
 Project Name: Newada AGR
 Project Location: Lea County
 Sampler Name: D ADLUS
 FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX | | | | | | | DATE | TIME | ANALYSIS REQUEST |
|----------|-------------|-------------------|--------------|-------------|------------|------|-----|--------|---------|------------|---------|------|------------------|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | | | |
| 1502519 | S-3 3' | G | 1 | | | | | | | | 9/23/15 | | TOTAL CHLORIDES |
| | S-3 5' | G | 1 | | | | | | | | 9/23 | | TPH |
| | S-3 7' | G | 1 | | | | | | | | 9/23 | | |
| | S-3 10' | G | 1 | | | | | | | | 9/23 | | |
| | S-3 15' | G | 1 | | | | | | | | 9/23 | | |

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Relinquished By: [Signature] Date: [Blank] Time: [Blank]
 Received By: [Signature] Date: [Blank] Time: [Blank]

Delivered By: (Circle One) UPS Bus Other: [Blank]
 Sampler - UPS - Bus - Other: [Blank]

REMARKS: P. 2 of 2
RUST!

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326