

September 23, 2014

Mr. Mike Bratcher **NMOCD District 2** 

921 North Bivins

ARTESIA

AMARILLO 811 S. 1st Street Artesia, NM 88210

Amarillo, Texas 79107 Phone 806.467.0607 Fax 806.467.0622 Subject:

Soil Assessment and Remediation Work Plan

LRE Operating, LLC Kersey State #008 30-015-42163

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768

Fax 575.746.8905 Dear Mr. Bratcher,

HOBBS 318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658

LRE Operating, LLC (Lime Rock) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

### **Incident Date**

MIDLAND 2901 State Hwy 349

November 9, 2014

Midland, Texas 79706 Phone 432.522.2133 Fax 432,522,2180

### **Background Information**

OKLAHOMA CITY 7700 North Hudson Avenue Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

The Kersey State #008 is located approximately fourteen (14) miles east of Artesia, New Mexico. The legal location for the site is Unit Letter I, Section 32, Township 17 South, and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.786646 North and -104.190679 West. A site plan is presented in Appendix I.

SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made of up of Kimbrough-Stegal loams with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to Pleistocene age alluvium. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 95-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. See Appendix II for the referenced groundwater data.

The ranking for this site is 10 Based on the following:

Depth to ground water **ENVIRONMENTAL CONSULTING** 

50'-100'

**ENGINEERING** 

Wellhead Protection Area Distance to surface water body

>1000'

DRILLING CONSTRUCTION SPILL MANAGEMENT >1000'

GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonlpe.com

### **Incident Description**

On November 9, 2014 a flowline leak caused the release of 32bbls of produced water. Upon discovery of the release a vacuum truck was immediately dispatched to recover the standing fluid. A total of 15bbls of produced water were recovered.

On November 11, 2014 Talon/LPE mobilized personnel to conduct a site assessment and preform soil sampling utilizing a hand auger. Refusal was encountered at a depth of 0.5-feet bgs with the hand auger. Upon receipt of analytical data from the initial sampling event it was determined that further vertical delineation for chlorides would be required. On December 3, 2014 a backhoe was utilized to complete the vertical chloride delineation within the impacted area. Laboratory results from the above referenced sampling activities are summarized in the table below.

### **Laboratory Results**

See Appendix III for complete report of laboratory results.

| Sample ID | Depth<br>(feet) | BTEX (mg/kg) | Chlorides<br>(mg/kg) | TPH (mg/kg)<br>GRO | TPH (mg/kg)<br>GRO |
|-----------|-----------------|--------------|----------------------|--------------------|--------------------|
| S-1       | 2.5             | ND           | 228000               | ND                 | ND                 |
| S-1       | 3               |              | 2600                 |                    |                    |
| S-1       | 4               |              | 48                   |                    |                    |
| S-2       | 0               | 0.1          | 14000                | ND                 | ND                 |
| S-2       | 0.5             | ND           | 6100                 | <u> </u>           |                    |
| S-2       | 2               |              | 5280                 |                    |                    |
| S-2       | 3               |              | 64                   |                    |                    |
| S-3       | 0               | ND           | 00                   | ND                 | ND                 |
| S-3       | 0.5             | ND           | 112                  |                    |                    |
| S-4       | 0               | 0.2          | 18000                | ND                 | ND                 |
| S-4       | 0.5             | ND           | 15800                |                    |                    |
| S-4       | 1               |              | 7200                 |                    |                    |
| S-4       | 2               |              | 736                  |                    |                    |
| S-4       | 3               |              | 272                  |                    |                    |
| S-5       | 0               | ND           | 79400                | ND                 | ND                 |
| S-5       | 0.5             | ND           | 7600                 |                    |                    |
| S-5       | 1               |              | 912                  |                    |                    |
| S-5       | 2               |              | 3560                 |                    |                    |
| S-5       | 3               |              | 208                  |                    |                    |
| S-6       | 0               | ND           | 16200                | ND                 | ND                 |
| S-6       | 0.5             | ND           | 1650                 |                    |                    |
| S-6       | 1               |              | 640                  |                    |                    |
| S-6       | 2               |              | 352                  |                    |                    |
| S-6       | 3               |              | 144                  |                    |                    |

(--) Analyte Not Tested

(ND) Analyte Not Detected

### **Proposed Remedial Actions**

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 4-feet bgs.
- The impacted area in the vicinity of sample locations S-2 and S-5 will be excavated to a depth of 3-feet bgs.
- The impacted area in the vicinity of sample location S-4 will be excavated to a depth of 2-feet bgs.
- The impacted area in the vicinity of sample location S-6 (flowpath) will be excavated to a depth of 1-foot bgs.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with top soil and contoured to match the surrounding terrain.

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,

TALON/LPE

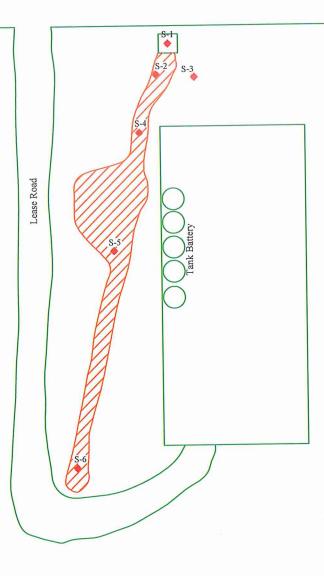
Sheldon L. Hitchcock

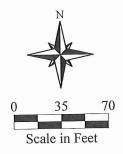
Project Manager

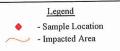
David J. Adkins District Manager

### SITE PLAN

Lease Road









Date: 11/21/2014

Scale: 1" = 70'

Drawn By: TJS

Kersey State #8
Lime Rock Resources
Eddy County, New Mexico
Figure 1 - Site Plan

### 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

Sub-

QQQ

Code basin County 64 16 4 Sec Tws Rng

577784

Depth Depth Water Well Water Column Distance

**POD Number RA 11857 POD1** 

1 1 2 05 18S 26E ED

3625988

235 3024

95

Average Depth to Water:

95 feet

Minimum Depth:

95 feet

Maximum Depth:

95 feet

Record Count: 1

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 575717

Northing (Y): 3628196

Radius: 5000

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC,

| Name of Company LRE Operating, LLC  Address 1111 Bagby St. Ste. 4600, Houston, TX 77002  Facility Name Kersey St. # 8  Surface Owner Concho  Mineral Owner State  LOCATION OF RELEASE  Unit Letter   Section   Township   Range   Feet from the   North/South Line   Feet from the   East/West Line   County    Final Report   Fi |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
| Address 1111 Bagby St. Ste. 4600, Houston, TX 77002  Facility Name Kersey St. # 8  Surface Owner Concho  Mineral Owner State  LOCATION OF RELEASE  |  |  |  |  |  |  |  |  |  |  |
| Facility Name Kersey St. # 8  Facility Type Flowline  Surface Owner Concho  Mineral Owner State  LOCATION OF RELEASE   |  |  |  |  |  |  |  |  |  |  |
| Surface Owner Concho  Mineral Owner State  API No. 30-015-42163  LOCATION OF RELEASE   |  |  |  |  |  |  |  |  |  |  |
| LOCATION OF RELEASE  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Thit Letter   Section   Township   Range   Feet from the   North/South Line   Feet from the   East/West Line   County  |  |  |  |  |  |  |  |  |  |  |
| Tomit Letter   Section   10 wishing   Range   1 cet from the   1 cet from  |  |  |  |  |  |  |  |  |  |  |
| Latitude 32.786646 Longitude -104.190679   |  |  |  |  |  |  |  |  |  |  |
| NATURE OF RELEASE  |  |  |  |  |  |  |  |  |  |  |
| Type of Release Produced Water Volume of Release 32bbls Volume Recovered 15bbls  |  |  |  |  |  |  |  |  |  |  |
| Source of Release Date and Hour of Occurrence Date and Hour of Discovery  3" Polyline Split A/M 11-9-14 11/9/2014 8:00 A/M   |  |  |  |  |  |  |  |  |  |  |
| 3" Polyline Split A/M 11-9-14   11/9/2014 8:00 A/M   Was Immediate Notice Given? If YES, To Whom?  |  |  |  |  |  |  |  |  |  |  |
| ☐ Yes ☒ No   |  |  |  |  |  |  |  |  |  |  |
| By Whom? Date and Hour   |  |  |  |  |  |  |  |  |  |  |
| Was a Watercourse Reached?  ☐ Yes ☒ No  ☐ If YES, Volume Impacting the Watercourse.  |  |  |  |  |  |  |  |  |  |  |
| If a Watercourse was Impacted, Describe Fully.*  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Describe Cause of Problem and Remedial Action Taken.*  A flowline leak caused the release of 32bbls of produced water. The flowline was repaired and put back into service. Talon/LPE mobilized personnel to   |  |  |  |  |  |  |  |  |  |  |
| conduct an initial site assessment and to perform soil sampling within the impacted area. Upon receipt of laboratory results from the soil sampling  |  |  |  |  |  |  |  |  |  |  |
| activities a remediation work plan will be generated and submitted to the OCD  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Describe Area Affected and Cleanup Action Taken.*  |  |  |  |  |  |  |  |  |  |  |
| A flowline leak caused the release of 32bbls of produced water. A vacuum truck was immediately dispatched to begin recovering fluid. 15bbls of fluid were recovered. The fluid flowed from the release point south across the pasture for approximately 339'. Remedial activities will commence upon   |  |  |  |  |  |  |  |  |  |  |
| regulatory approval of a work plan.  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 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   |  |  |  |  |  |  |  |  |  |  |
| Approved by Environmental Specialist:  Printed Name: Michael Barrett   |  |  |  |  |  |  |  |  |  |  |
| Title: Production Supervisior Approval Date: Expiration Date:  |  |  |  |  |  |  |  |  |  |  |
| This, Household Supervision  |  |  |  |  |  |  |  |  |  |  |
| E-mail Address: mbarrett@limerockresources.com  Conditions of Approval;  Attached  |  |  |  |  |  |  |  |  |  |  |

Date:11-10-14

\* Attach Additional Sheets If Necessary

### LABORATORY RESULTS



November 18, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: KERSEY ST. #8

Enclosed are the results of analyses for samples received by the laboratory on 11/13/14 10:26.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

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



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8

Project Number:

701907.072.01

Project Location:

NOT GIVEN

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-1 2.5' (H403499-01)

| BTEX 8021B                           | mg/l   | mg/kg           |            | Analyzed By: ms |      |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 11/17/2014 | ND              | 1.83 | 91.3       | 2.00          | 6.10  |           |
| Toluene*                             | <0.050 | 0.050           | 11/17/2014 | ND              | 1.77 | 88.4       | 2.00          | 5.96  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/17/2014 | ND              | 1.71 | 85.3       | 2.00          | 7.07  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/17/2014 | ND              | 5.12 | 85.3       | 6.00          | 7.69  |           |
| Total BTEX                           | <0.300 | 0.300           | 11/17/2014 | ND              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.79  | 61-154          |            |                 |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | mg/kg           |            | Analyzed By: AP |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 22800  | 16.0            | 11/14/2014 | ND              | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | kg              | Analyze    | d By: ms        |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 11/14/2014 | ND              | 186  | 92.8       | 200           | 0.855 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 11/14/2014 | ND              | 188  | 94.1       | 200           | 1.14  |           |
| Surrogate: 1-Chlorooctane            | 116    | % 47.2-15       | 57         |                 |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 129    | % 52.1-17       | 76         |                 |      |            |               |       |           |

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg There



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

Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8 701907.072.01

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact Kathy Perez

Sample Received By:

Sample ID: S-2 0' (H403499-02)

| BTEX 8021B                           | mg/kg  |                 | Analyzed By: ms |              |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | 0.051  | 0.050           | 11/18/2014      | ND           | 1.83 | 91.3       | 2.00          | 6.10  |           |
| Toluene*                             | 0.050  | 0.050           | 11/18/2014      | ND           | 1.77 | 88.4       | 2.00          | 5.96  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/18/2014      | ND           | 1.71 | 85.3       | 2.00          | 7.07  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/18/2014      | ND           | 5.12 | 85.3       | 6.00          | 7.69  |           |
| Total BTEX                           | <0.300 | 0.300           | 11/18/2014      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 94.3 9 | % 61-154        | x               |              |      |            |               |       |           |
| Chloride, SM4500CI-B                 | mg/    | kg              | Analyzed By: AP |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 14000  | 16.0            | 11/14/2014      | ND           | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | kg              | Analyze         | ed By: ms    |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 11/14/2014      | ND           | 186  | 92.8       | 200           | 0.855 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 11/14/2014      | ND           | 188  | 94.1       | 200           | 1.14  |           |
| Surrogate: 1-Chlorooctane            | 111 5  | % 47.2-15       | 7               |              |      |            |               |       |           |

52.1-176

121%

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg There



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8

Project Number: Project Location: 701907.072.01 NOT GIVEN Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-2 0.5' (H403499-03)

| Sample 1D: S-2 0.5 (11403499-<br>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           | 11/17/2014      | ND           | 1.83 | 91.3       | 2.00          | 6.10 |           |
| Toluene*                                    | 0.053  | 0.050           | 11/17/2014      | ND           | 1.77 | 88.4       | 2.00          | 5.96 |           |
| Ethylbenzene*                               | <0.050 | 0.050           | 11/17/2014      | ND           | 1.71 | 85.3       | 2.00          | 7.07 |           |
| Total Xylenes*                              | <0.150 | 0.150           | 11/17/2014      | ND           | 5.12 | 85.3       | 6.00          | 7.69 |           |
| Total BTEX                                  | <0.300 | 0.300           | 11/17/2014      | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL        | 88.4   | % 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                                    | 6100   | 16.0            | 11/14/2014      | ND           | 400  | 100        | 400           | 3.92 |           |

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8

Project Number: Project Location: 701907.072.01 NOT GIVEN

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-3 0' (H403499-04)

| BTEX 8021B                           | mg/k   | g               | Analyzed By: ms |              |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 11/17/2014      | ND           | 1.83 | 91.3       | 2.00          | 6.10  |           |
| Toluene*                             | <0.050 | 0.050           | 11/17/2014      | ND           | 1.77 | 88.4       | 2.00          | 5.96  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/17/2014      | ND           | 1.71 | 85.3       | 2.00          | 7.07  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/17/2014      | ND           | 5.12 | 85.3       | 6.00          | 7.69  |           |
| Total BTEX                           | <0.300 | 0.300           | 11/17/2014      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 93.8 % | 61-154          | 1               |              |      |            |               |       |           |
| Chloride, SM4500CI-B                 | mg/l   | kg              | Analyzed By: AP |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | <16.0  | 16.0            | 11/14/2014      | ND           | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | kg              | Analyze         | d By: ms     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 11/14/2014      | ND           | 186  | 92.8       | 200           | 0.855 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 11/14/2014      | ND           | 188  | 94.1       | 200           | 1.14  |           |
| Surrogate: 1-Chlorooctane            | 108 9  | % 47.2-15       | 57              |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 118 9  | % 52.1-17       | 76              |              |      |            |               |       |           |

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8 701907.072.01

Project Number: Project Location:

**NOT GIVEN** 

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-3 0.5' (H403499-05)

| BTEX 8021B                           | mg/    | kg              | Analyze    | d By: ms     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 11/17/2014 | ND           | 1.83 | 91.3       | 2.00          | 6.10 |           |
| Toluene*                             | <0.050 | 0.050           | 11/17/2014 | ND           | 1.77 | 88.4       | 2.00          | 5.96 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/17/2014 | ND           | 1.71 | 85.3       | 2.00          | 7.07 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/17/2014 | ND           | 5.12 | 85.3       | 6.00          | 7.69 |           |
| Total BTEX                           | <0.300 | 0.300           | 11/17/2014 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 97.2   | % 61-154        |            |              |      |            |               |      |           |
| Chloride, SM4500CI-B                 | mg/    | kg              | Analyze    | d By: AP     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 112    | 16.0            | 11/14/2014 | ND           | 400  | 100        | 400           | 3.92 |           |

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Fax To:

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Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8 701907.072.01

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-4 0' (H403499-06)

| BTEX 8021B                           | mg/l   | кg              | Analyzed        | l By: ms     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | 0.110  | 0.050           | 11/17/2014      | ND           | 1.83 | 91.3       | 2.00          | 6.10  |           |
| Toluene*                             | 0.135  | 0.050           | 11/17/2014      | ND           | 1.77 | 88.4       | 2.00          | 5.96  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/17/2014      | ND           | 1.71 | 85.3       | 2.00          | 7.07  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/17/2014      | ND           | 5.12 | 85.3       | 6.00          | 7.69  |           |
| Total BTEX                           | <0.300 | 0.300           | 11/17/2014      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 97.3 9 | % 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                             | 18000  | 16.0            | 11/14/2014      | ND           | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | kg              | Analyze         | d By: ms     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifie  |
| GRO C6-C10                           | <10.0  | 10.0            | 11/14/2014      | ND           | 186  | 92.8       | 200           | 0.855 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 11/14/2014      | ND           | 188  | 94.1       | 200           | 1.14  |           |
| Surrogate: 1-Chlorooctane            | 115    | % 47.2-15       | 57              |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 124    | % 52.1-17       | 76              |              |      |            |               |       |           |

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Fax To:

(575) 745-8905

Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8 701907.072.01

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-4 0.5' (H403499-07)

| BTEX 8021B                           | mg/    | kg              | Analyze    | d By: ms     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 11/17/2014 | ND           | 1.83 | 91.3       | 2.00          | 6.10 |           |
| Toluene*                             | <0.050 | 0.050           | 11/17/2014 | ND           | 1.77 | 88.4       | 2.00          | 5.96 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/17/2014 | ND           | 1.71 | 85.3       | 2.00          | 7.07 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/17/2014 | ND           | 5.12 | 85.3       | 6,00          | 7.69 |           |
| Total BTEX                           | <0.300 | 0.300           | 11/17/2014 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 96.8   | % 61-154        |            |              |      |            |               |      |           |
| Chloride, SM4500CI-B                 | mg/    | kg              | Analyze    | d By: AP     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 15800  | 16.0            | 11/14/2014 | ND           | 400  | 100        | 400           | 3.92 |           |

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Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8 701907.072.01

Project Number: Project Location:

**NOT GIVEN** 

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-5 0' (H403499-08)

| BTEX 8021B                           | mg/kg  |                 | Analyzed        | Analyzed By: ms |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 11/17/2014      | ND              | 1.83 | 91.3       | 2.00          | 6.10  |           |
| Toluene*                             | <0.050 | 0.050           | 11/17/2014      | ND              | 1.77 | 88.4       | 2.00          | 5.96  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/17/2014      | ND              | 1.71 | 85.3       | 2.00          | 7.07  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/17/2014      | ND              | 5.12 | 85.3       | 6.00          | 7.69  |           |
| Total BTEX                           | <0.300 | 0.300           | 11/17/2014      | ND              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 97.5   | % 61-154        | 1               |                 |      |            |               |       |           |
| Chloride, SM4500CI-B                 | mg/kg  |                 | Analyzed By: AP |                 |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 19400  | 16.0            | 11/14/2014      | ND              | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | 'kg             | Analyze         | d By: ms        |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 11/14/2014      | ND              | 186  | 92.8       | 200           | 0.855 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 11/14/2014      | ND              | 188  | 94.1       | 200           | 1.14  |           |
| Surrogate: 1-Chlorooctane            | 118    | % 47.2-1.       | 57              |                 |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 128    | % 52.1-1        | 76              |                 |      |            |               |       |           |

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Fax To:

(575) 745-8905

Received:

11/13/2014

Reported: Project Name: 11/18/2014 KERSEY ST. #8

Project Number:

701907.072.01

Project Location:

NOT GIVEN

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-5 0.5' (H403499-09)

| BTEX 8021B                           | mg/    | kg              | Analyze    | d By: ms     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 11/17/2014 | ND           | 1.83 | 91.3       | 2.00          | 6.10 |           |
| Toluene*                             | <0.050 | 0.050           | 11/17/2014 | ND           | 1.77 | 88.4       | 2.00          | 5.96 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/17/2014 | ND           | 1.71 | 85.3       | 2.00          | 7.07 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/17/2014 | ND           | 5.12 | 85.3       | 6,00          | 7.69 |           |
| Total BTEX                           | <0.300 | 0.300           | 11/17/2014 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.1   | % 61-154        |            |              |      |            |               |      |           |
| Chloride, SM4500CI-B                 | mg/    | kg              | Analyze    | d By: AP     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 7600   | 16.0            | 11/14/2014 | ND           | 400  | 100        | 400           | 3.92 |           |

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

Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8 701907.072.01

Project Number: Project Location:

NOT GIVEN

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-6 0' (H403499-10)

| BTEX 8021B                           | mg/    | kg              | Analyze         | d By: ms     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 11/17/2014      | ND           | 1.83 | 91.3       | 2.00          | 6.10  |           |
| Toluene*                             | <0.050 | 0.050           | 11/17/2014      | ND           | 1.77 | 88.4       | 2.00          | 5.96  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/17/2014      | ND           | 1.71 | 85.3       | 2.00          | 7.07  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/17/2014      | ND           | 5.12 | 85.3       | 6.00          | 7.69  |           |
| Total BTEX                           | <0.300 | 0.300           | 11/17/2014      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 99.6   | % 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                             | 16200  | 16.0            | 11/14/2014      | ND           | 400  | 100        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | 'kg             | Analyze         | d By: ms     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10                           | <10.0  | 10.0            | 11/14/2014      | ND           | 186  | 92.8       | 200           | 0.855 |           |
| DRO >C10-C28                         | <10.0  | 10.0            | 11/14/2014      | ND           | 188  | 94.1       | 200           | 1.14  |           |
| Surrogate: 1-Chlorooctane            | 117    | % 47.2-15       | 57              |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 129    | % 52.1-17       | 76              |              |      |            |               |       |           |

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Fax To:

(575) 745-8905

Received:

11/13/2014

Reported:

11/18/2014

Project Name:

KERSEY ST. #8 701907.072.01

Project Number:

Sampling Date:

11/10/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S-6 0.5' (H403499-11)

| BTEX 8021B                           | mg/    | kg              | Analyze    | d By: ms     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 11/17/2014 | ND           | 1.83 | 91.3       | 2.00          | 6.10 |           |
| Toluene*                             | <0.050 | 0.050           | 11/17/2014 | ND           | 1.77 | 88.4       | 2.00          | 5.96 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 11/17/2014 | ND           | 1.71 | 85.3       | 2.00          | 7.07 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 11/17/2014 | ND           | 5.12 | 85.3       | 6.00          | 7.69 |           |
| Total BTEX                           | <0.300 | 0.300           | 11/17/2014 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 100 9  | % 61-154        |            |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | 'kg             | Analyze    | d By: AP     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 1650   | 16.0            | 11/14/2014 | ND           | 400  | 100        | 400           | 0.00 |           |

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### **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 SM4500CI-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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| (575) 393-2326 FAX (575) 393-2476  |  | ANALYSIS REQUEST      |
|--|--|-----------------------|
| Company Name: Talon/LPE  | BILLIO   |                       |
| D. Adki  |  |                       |
| Ave.   |  |                       |
| State: NM  | 0  |                       |
| -746-8768  |  |                       |
| Project #: 701907.072.01 Project Owner: Lime Rock  | City:  |                       |
| Project Name: Kersey St. #8  | State.   |                       |
| Project Location:  | Filolie *:   |                       |
| sampler Name: S. Hitchcock   |  |                       |
|  | R  |                       |
| Lab I.D. Sample I.D.   |  | TPH<br>BIEX<br>Chlori |
| 1 15-12.5  | 11/0/14  | 4.50                  |
|  |  | 32.0                  |
| 3 5-20.5   |  | 10.01                 |
| 4 5-30'  |  | 000                   |
| 2  |  | 0/18                  |
|  |  | 0116                  |
| 7-40:4   | 6  | 10,22                 |
| 6 4-20,5   | 6 1  | 0,25                  |
| 70 5-60'   | oration whether based in contract or fart, shall be limited to the amount pai  | by the client for the |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive firmary los any current with control in whiting and received by Cardinal within 30 days after completion of the appropriate properties. In a control in the control of | y Cussing Control within 30 days after earned by Cartinal within 30 days after earned waived unless made in writing and received by Cartinal within 30 days after earned by without limitation, business interruptions, lips of use, or loss to profits incurred by without limitation, business interruptions, lips of use, or loss to profits incurred to the control of the | Shirania              |
| solvice. In no event warm community of the performance of services hereunder by C affiliates or successors arising out of or related to the performance of services hereunder by C Datte:  | Received By:   | Phone Result:         |
| Remidusing 5.  | Con Cox  |                       |
| Relinquished By:   | Received By:   |                       |
|  | $\dashv$   |                       |
| Delivered by: (Circle Circ)  | Cool Intact  |                       |
| Sampler - UPS - Bus - Other:   | 1  |                       |



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| (575) 393-2326 FAX (575) 393-2476  | ANALYSIS REQUEST   |
|--|--|
| Company Name: Talon/LPE  | BIRLE  |
| Project Manager: D. Adkins   | TOO !  |
| Ave.   | bany:  |
|  | ALL TRACE  |
| -746-8768  | Audices.   |
| Project #:701907.072.01 Project Owner: Lime Rock   | City:  |
| Project Name: Kersey St. #8  |  |
| Project Location:  | TICLE OF THE STATE |
| 3. Hitchcock   | PRESERV. SAMPLING  |
|  |  |
| (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL  | SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:  TIME  Ch O / O   |
| 5-60:5   |  |
|  |  |
|  |  |
|  |  |
| PLEASE NOTE: Liability and Damages. Cardinatis liability and client's exclusive remedy for any claim arising whether based in contract or tori(shall be longited to the amount paid by the client for the PLEASE NOTE: Liability and Damages. Cardinatis liability and client's exclusive remedy for any claim arising whether based in writing and received by Cardinaty within 30 days after completion of the applicable of the contract of the contract of the paid of the contract by client, its subcidiaries. | moact or tod (shall be legisled to the amount paid by the client for the gard or tod (shall be legisled to the amount paid by the client for the gard or consoled by Caddhal within 30 days after completion of the applicable gard or consoled by Caddhal within 30 days after completion of the applicable of the consoled by Caddhal within 30 days after the subsidiarities.   |
| pervice. In no event shall Cardinal be liable for incidental or correctional dearinger, indexers year and cardinal engandless of whether such affiliates or successors arising out of or related to the performance of services between dear by Cacce Ved BV:  | tether such dalm is based lipon any of the labove states resource. Yes \( \text{No Add'l Phone #:} \)  |
| Relinquished By:  Time:  Relinquished By:  Time:  Time:  Time:   | REMARKS:   |
| Delivered By: (Circle One)  Sample Condition Cool Intact Cool Intact Hyes Tyes Sampler - UPS - Bus - Other:  Sampler - UPS - Bus - Other:  1, 4  | Condition Checkers: Intact (Initials) S Tyes No 14   |
| 1.1(   | 1  |



December 11, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: KERSEY ST. #8

Enclosed are the results of analyses for samples received by the laboratory on 12/08/14 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/08/2014

Reported:

12/11/2014

Project Name:

KERSEY ST. #8 701307.072.01

Project Number: Project Location:

I-32-17S-28E

Sampling Date:

12/03/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

400

BS

400

Jodi Henson

Sample ID: S-1 3' (H403735-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Analyte

Result 2600 Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 12/09/2014

Analyzed

12/09/2014

Method Blank ND

BS % Recovery True Value QC 400

**RPD** 0.00 Qualifier

Sample ID: S-1 4' (H403735-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

ND

% Recovery

100

100

True Value QC

400

RPD 0.00

Qualifier

Sample ID: S-2 2' (H403735-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result 5280

Result

48.0

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 12/09/2014 Method Blank ND

RS 400 % Recovery 100

True Value QC

400

**RPD** 0.00 Qualifier

Sample ID: S-2 3' (H403735-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

64.0

Analyzed

12/09/2014

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

**RPD** 0.00 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Kreene

Celey D. Keene, Lab Director/Quality Manager



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

Reported:

12/11/2014 KERSEY ST. #8 Project Name: 701307.072.01

Project Number: Project Location:

Received:

I-32-17S-28E

12/08/2014

Sampling Date: Sampling Type:

Sampling Condition:

Sample Received By:

12/03/2014 Soil Cool & Intact

Jodi Henson

Qualifier

Sample ID: S-4 1' (H403735-05)

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

Reporting Limit Analyzed Method Blank BS % Recovery True Value QC **RPD** Result Analyte 400 100 400 0.00 Chloride 7200 16.0 12/09/2014 ND

Sample ID: S-4 2' (H403735-06)

Analyzed By: AP Chloride, SM4500CI-B mg/kg % Recovery True Value QC RPD Qualifier Method Blank BS Analyte Result Reporting Limit Analyzed 400 100 400 0.00 12/09/2014 ND Chloride 736 16.0

Sample ID: S-4 3' (H403735-07)

Analyzed By: AP Chloride, SM4500CI-B mg/kg **RPD** Qualifier Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Analyte 12/09/2014 ND 400 100 400 0.00 272 16.0 Chloride

Sample ID: S-5 1' (H403735-08)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP RPD Qualifier Method Blank BS % Recovery True Value QC Reporting Limit Analyzed Analyte Result 0.00 ND 400 100 400 912 16.0 12/09/2014 Chloride

Sample ID: S-5 2' (H403735-09)

Analyzed By: AP Chloride, SM4500Cl-B mg/kg RPD Qualifier True Value QC Reporting Limit Analyzed Method Blank BS % Recovery Result Analyte 0.00 ND 400 100 400 3560 16.0 12/09/2014 Chloride

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\*=Accredited Analyte

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Celeg Ditreme



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

Received:

12/08/2014

Reported: Project Name: 12/11/2014 KERSEY ST. #8

Project Number:

701307.072.01

Project Location:

I-32-17S-28E

Sampling Date:

12/03/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: S-5 3' (H403735-10)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

Analyzed

Analyzed

12/09/2014

Analyzed

12/09/2014

Method Blank

BS % Recovery True Value QC

RPD

0.00

Qualifier

Chloride

Chloride

Chloride

208

Result

640

Result

352

Result

12/09/2014 16.0

ND

400

100

400

Sample ID: S-6 1' (H403735-11)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

Method Blank

ND

Method Blank

ND

Method Blank

ND

BS

400

% Recovery

100

True Value QC

400

RPD

0.00

**RPD** 

0.00

Qualifier

Sample ID: S-6 2' (H403735-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

BS

400

% Recovery

100

True Value QC

400

Qualifier

Sample ID: S-6 3' (H403735-13)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

BS

True Value QC

RPD

Qualifier

Chloride

144 16.0

Analyzed 12/09/2014

400

% Recovery 100

400

0.00

\*=Accredited Analyte

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Celeg Theene



### **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 SM4500CI-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. Keine



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|                                |   |                                       | ANALYSIS BEOLIEST |
|--------------------------------|---|---------------------------------------|-------------------|
| Company Name: Talon/LPE        |   | BILL 10                               | ANACIO            |
| Project Manager: D. Akins      |   | P.O. #:                               |                   |
| Address: 408 W. Texas Ave.     |   | company: Talon/LPE                    |                   |
| city: Artesia s                | State: NM Zip: 88210  | Attn:                                 |                   |
| -746-8768                      | Fax #: 575-746-8905   | Address:                              |                   |
|                                | Project Owner: Lime Rock  | City:                                 |                   |
| Project Name: Kersey St. #8    | 1   | State: Zip:                           |                   |
| Project Location: I-32-17S-28E |   | Phone #:                              |                   |
| Sampler Name: S. Hitchcock     |   |                                       |                   |
| FOR LAB USE ONLY               | MATRIX  | PRESERV. SAMPLING                     |                   |
| Lab I.D. Sample I.D.           | G)RAB OR (C)OMF<br>CONTAINERS<br>GROUNDWATER<br>WASTEWATER<br>GOIL<br>DIL<br>GLUDGE | DTHER: ACID/BASE: CE/COOL DTHER: DATE |                   |
| 1 4-13                         | / /   | 1 12/3/14 12:54                       |                   |
| 2 5- 14                        | <u> </u>  | 12:56                                 |                   |
| 3 5-22                         | 6   |                                       |                   |
| 4 5-23                         | 6-  | 1:30                                  |                   |
| 16-55                          | 611   | /                                     |                   |
| 5,4 2,9                        | 611   | (5)                                   |                   |
| 75-43,                         | 6 1   | 1:57                                  |                   |
| 5 5-5 1                        | 611   | 7 2 4                                 |                   |
| 9 5-52                         | 9   | 2 1                                   |                   |
| 10,5-57                        | G 1   | 1 1 2:2 / 1                           |                   |

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Cool Intact
Pres Pres
No No Phone Result:
Fax Result:
REMARKS:

□ Yes

O No

Add'l Phone #: Add'l Fax #:

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

Page 6 of 7



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| company Name:  a ON/LTE                           | many majorate format and the second s |        |
|---|--|--------|
| Project Manager: D. Akins                         | P.O. #:  |        |
| Address: 408 W. Texas Ave.                        | company: Talon/LPE   |        |
| city: Artesia state: NM zip: 88210                | 88210 Attn:  |        |
| Phone #: 575-746-8768 Fax #: 575-746-8905         | -8905 Address:   |        |
| Project #: 701307.072.01 Project Owner: Lime Rock | ne Rock city:  |        |
| Project Name: Kersey St. #8                       | State: Zip:  |        |
| Project Location: I-32-17S-28E                    | Phone #:   |        |
| Sampler Name: S. Hitchcock                        | Fax#:  |        |
| FOR LAB USE ONLY                                  | MATRIX PRESERV. SAMPLING   | d      |
| Lab I.D. Sample I.D.  Sample I.D.  G)RAB OR (C)ON | CONTAINERS GROUNDWATER MASTEWATER SOIL DIL SLUDGE DTHER: ACID/BASE: CCE / COOL DTHER:  | Chlori |
| 6-1-6   | 1 / 12/3/14/2:41   |        |
| 5-62  | 2,43   |        |
| 13 5-63'  | 1 / 2 / 2  |        |
|   |  |        |
|   |  |        |
|   |  |        |
|   | hand in contract of fort shall be limited to the amount paid by the client for the   | torthe |

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Received By:

Times.

Received By:

REMARKS: Kylcincle One) Date: Time: Time: Sample Condition ☐ Yes

O No

Add'l Phone #: Add'l Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 39\$\frac{1}{2326}

Cool Intact
Pres Pres

Sampler - Bus - Other:

Page 7 of 7