



August 28, 2013



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

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.746.8905

Subject: **Soil Assessment and Remediation Work Plan**
Lime Rock Resources
ASAU Injection Line

Dear Mr. Bratcher,

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

Lime Rock Resources (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
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

The release was discovered July 17, 2013 at 8:00 am

Background Information

OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

The ASAU Injection Line release is located approximately eight (8) miles southeast of Artesia, New Mexico. The legal location for the site is Unit letter K of Section 11, Township 18 South, Range 26 East. More specifically the latitude and longitude for the release are 32.75924 North and -104.35247 West. A site plan is presented in Appendix I.

SAN ANTONIO
11 Commercial Place
Schertz, Texas 78154
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 up of the Reagan loam with 0 to 1 percent slopes. According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Artesia group shell faces forming a broad South-South-East trending outcrop from Glorieta to the Artesia area. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 30-feet below ground surface (bgs), according to the New Mexico Office of the State Engineer database. See Appendix II for the referenced groundwater data.

The ranking for this site is **20** based on the following:

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Depth to ground water <100'
Wellhead Protection Area <1000'
Distance to surface water body >1000'

Incident Description

An injection line running under an alfalfa field leaked causing a release of approximately 12bbls of produced water. Talon/LPE was contacted to assess and contain the fluid. Talon personnel collected soil samples and constructed berms to contain the remaining fluid. The impacted area measured approximately 74x94 feet at its widest point and had a 25-foot wide flow path that stretched approximately 85-feet south of the main pooling area. See the site plan is presented in Appendix I

Laboratory Results

See Appendix III for complete report of laboratory results.

| Sample ID | Depth (feet) | BTEX (mg/kg) | Chlorides (mg/kg) | TPH (mg/kg) GRO | TPH (mg/kg) DRO |
|-----------|--------------|--------------|-------------------|-----------------|-----------------|
| S-1 | 0 | 1020 | 32000 | 6670 | 8730 |
| S-1 | 0.5 | 18.9 | 21600 | 59.6 | 101 |
| S-1 | 1 | -- | 8800 | 341 | 607 |
| S-1 | 2 | -- | 3560 | 1720 | 2150 |
| S-1 | 3 | -- | 10300 | 69.9 | 116 |
| S-1 | 6 | -- | 921* | -- | -- |
| S-1 | 9 | -- | 310 | -- | -- |
| S-1 | 10 | -- | 208 | -- | -- |
| S-1 | 12 | -- | 32 | -- | -- |
| S-2 | 0 | ND | 12800 | ND | ND |
| S-2 | 0.5 | ND | 8800 | ND | ND |
| S-2 | 1 | -- | 1920 | -- | -- |
| S-2 | 2 | -- | 288 | -- | -- |
| S-2 | 3 | -- | 224 | -- | -- |
| S-3 | 0 | ND | 32 | ND | ND |
| S-3 | 0.5 | ND | 80 | ND | ND |
| S-4 | 0 | ND | 32 | ND | ND |
| S-4 | 1 | ND | 16 | ND | ND |

(--) Analyte not tested

(ND) Analyte not detected

(*) Field Titration Data

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL's) for this project is 50 mg/kg for BTEX, 10 mg for Benzene, and 100 mg/kg for TPH.

Proposed Remedial Actions

- The area in the vicinity to S-1 will be excavated to a depth of 5-feet bgs.
- The areas in the vicinity of S-2 will be excavated to a depth of 1.5-feet bgs.
- Soil samples will be taken and tested for chlorides to confirm that all of the impacted soil was removed.
- The excavated areas will be backfilled with topsoil.
- A final report documenting all activities, laboratory data, and a final C-141 will be submitted to the NMOCD Artesia office upon completion.

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,


Sheldon Hitchcock
Environmental Scientist



David J. Adkins
District Manager

SITE PLAN

Alfalfa Field

Alfalfa Field

House

S-2

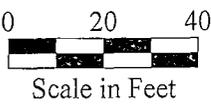
S-3

S-1

Leak*

S-4

Aaron Road



Legend
◆ - Sample Location
--- PL --- - Pipeline



Date: 07/25/2013
Scale: 1" = 40'
Drawn By: TJS

ASAU Injection Line
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 Number | POD Sub-Code | basin | County | Q Q Q | | | | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|---------------------------|--------------|-------|--------|-------|----|----|-----|-----|--------|----------|----------|------|----------|------------|-------------|--------------|
| | | | | 64 | 16 | 4 | 4 | | | | | | | | | |
| <u>RA 03634</u> | | | ED | 3 | 1 | 4 | 11 | 18S | 26E | 560757 | 3624835* | 317 | 1797 | | | |
| <u>RA 03639</u> | | | ED | 4 | 4 | 3 | 11 | 18S | 26E | 560555 | 3624429* | 515 | 1710 | | | |
| <u>RA 00012</u> | O | | ED | 3 | 4 | 11 | 18S | 26E | 560858 | 3624531* | 569 | 600 | | | | |
| <u>RA 03596</u> | | | ED | 3 | 4 | 11 | 18S | 26E | 560858 | 3624531* | 569 | 1736 | | | | |
| <u>RA 00011</u> | O | | ED | 3 | 3 | 11 | 18S | 26E | 560054 | 3624529* | 571 | 1100 | | | | |
| <u>RA 00011 A</u> | | | ED | 3 | 3 | 11 | 18S | 26E | 560054 | 3624529* | 571 | 1100 | | | | |
| <u>RA 00012 A</u> | | | ED | 3 | 3 | 4 | 11 | 18S | 26E | 560757 | 3624430* | 587 | 600 | | | |
| <u>RA 03731</u> | | | ED | 1 | 1 | 1 | 14 | 18S | 26E | 559953 | 3624223* | 871 | 120 | 30 | 90 | |
| <u>RA 02389</u> | | | ED | 1 | 2 | 2 | 15 | 18S | 26E | 559551 | 3624221* | 1152 | 209 | | | |
| <u>RA 01288</u> | | | ED | 3 | 3 | 3 | 02 | 18S | 26E | 559950 | 3626045* | 1219 | 186 | 50 | 136 | |
| <u>RA 01288 CLW319630</u> | O | | ED | 3 | 3 | 3 | 02 | 18S | 26E | 559950 | 3626045* | 1219 | 200 | | | |
| <u>RA 03600</u> | | | ED | 2 | 3 | 2 | 14 | 18S | 26E | 560956 | 3623821* | 1221 | 955 | | | |
| <u>RA 02122</u> | | | ED | 1 | 2 | 2 | 10 | 18S | 26E | 559548 | 3625839* | 1281 | 115 | 15 | 100 | |
| <u>RA 03756</u> | | | ED | 1 | 1 | 4 | 10 | 18S | 26E | 559147 | 3625027* | 1312 | 148 | 55 | 93 | |
| <u>RA 01171</u> | | | ED | 1 | 3 | 4 | 10 | 18S | 26E | 559149 | 3624622* | 1343 | 864 | 8 | 856 | |
| <u>RA 02432</u> | | | ED | 2 | 3 | 1 | 12 | 18S | 26E | 561764 | 3625443* | 1403 | 100 | | | |
| <u>RA 02808</u> | | | ED | 4 | 4 | 03 | 18S | 26E | 559648 | 3626145* | 1454 | 100 | 30 | 70 | | |

Average Depth to Water: **31 feet**

Minimum Depth: **8 feet**

Maximum Depth: **55 feet**

Record Count: 17

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 560456

Northing (Y): 3624935

Radius: 1500

*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.

RECEIVED
 JUL 23 2013
 NMOC D ARTESIA

District I
 1625 N. French Dr., Hobbs, NM 88249
 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

JMW 1320654769 OPERATOR Initial Report Final Report

| | |
|--|-----------------------------------|
| Name of Company <i>Lime Rock Resources 277558</i> | Contact <i>Michael Barrett</i> |
| Address <i>1111 Bagby Street Suite 4600, Houston, TX 77002</i> | Telephone No. <i>575-623-8424</i> |
| Facility Name <i>ASAU Injection Line</i> | Facility Type <i>Flow Line</i> |
| Surface Owner <i>Private</i> | Mineral Owner <i>State</i> |
| API No. | |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| K | 11 | 18S | 26E | | | | | Eddy |

Latitude 32.75924 Longitude -104.35247

NATURE OF RELEASE

| | | |
|--|--|---|
| Type of Release <i>Produced Water</i> | Volume of Release <i>12 bbls</i> | Volume Recovered <i>0</i> |
| Source of Release <i>Flowline Leak</i> | Date and Hour of Occurrence <i>Unknown</i> | Date and Hour of Discovery <i>7/17/2013 @ 8:00 am</i> |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| 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.* An injection flowline running under an alfalfa field leaked causing a release of approximately 12bbls of produced water. Talon/LPE was contacted to do an initial site assessment and contain the fluid. Talon personnel collected soil samples and constructed berms to contain the remaining fluid. | | |
| Describe Area Affected and Cleanup Action Taken.* The impacted area measured approximately 74 x 94 feet at its widest point and had a 24 foot wide flow path that stretched approximately 85 feet south of the main pooling area. Talon will draft a remediation work plan and begin remedial activities upon its approval. | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | |

| | | |
|---|---|-----------------------------------|
| Signature: <i>[Signature]</i> | OIL CONSERVATION DIVISION | |
| Printed Name: <i>Michael Barrett</i> | Approved by Environmental Specialist | Signed By <i>[Signature]</i> |
| Title: <i>Production Supervisor</i> | Approval Date: <i>JUL 25 2013</i> | Expiration Date: |
| E-mail Address: <i>mbarrett@limerockresources.com</i> | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: <i>7-23-13</i> Phone: <i>575-628-8424</i> | Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: | |

* Attach Additional Sheets If Necessary
JMW 1320654513
JMW 1320655624

August 25, 2013
2RP-1747

LABORATORY RESULTS



July 24, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ASAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/17/13 15:20.

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

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 07/17/2013 | Sampling Date: | 07/17/2013 |
| Reported: | 07/24/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S/1 - 0" (H301674-01)

| BTEX 8021B | | mg/kg | | Analyzed By: DW | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | 155 | 5.00 | 07/19/2013 | ND | 1.92 | 96.0 | 2.00 | 5.68 | | |
| Toluene* | 340 | 5.00 | 07/19/2013 | ND | 1.91 | 95.7 | 2.00 | 5.61 | | |
| Ethylbenzene* | 177 | 5.00 | 07/19/2013 | ND | 2.03 | 102 | 2.00 | 5.15 | | |
| Total Xylenes* | 343 | 15.0 | 07/19/2013 | ND | 6.17 | 103 | 6.00 | 5.53 | | |
| Total BTEX | 1020 | 30.0 | 07/19/2013 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32000 | 16.0 | 07/22/2013 | ND | 432 | 108 | 400 | 3.77 | | |

| 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 | 6670 | 100 | 07/19/2013 | ND | 175 | 87.6 | 200 | 5.96 | | | |
| DRO >C10-C28 | 8730 | 100 | 07/19/2013 | ND | 180 | 90.1 | 200 | 8.88 | | | |

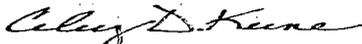
Surrogate: 1-Chlorooctane 160 % 65.2-140

Surrogate: 1-Chlorooctadecane 316 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 07/17/2013 | Sampling Date: | 07/17/2013 |
| Reported: | 07/24/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S/1 - 6" (H301674-02)

| BTEX 8021B | | mg/kg | | Analyzed By: DW | | | | S-04 | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 2.51 | 0.050 | 07/19/2013 | ND | 1.92 | 96.0 | 2.00 | 5.68 | |
| Toluene* | 5.22 | 0.050 | 07/19/2013 | ND | 1.91 | 95.7 | 2.00 | 5.61 | |
| Ethylbenzene* | 3.42 | 0.050 | 07/19/2013 | ND | 2.03 | 102 | 2.00 | 5.15 | |
| Total Xylenes* | 7.74 | 0.150 | 07/19/2013 | ND | 6.17 | 103 | 6.00 | 5.53 | |
| Total BTEX | 18.9 | 0.300 | 07/19/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 131 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 21600 | 16.0 | 07/22/2013 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 59.6 | 10.0 | 07/19/2013 | ND | 175 | 87.6 | 200 | 5.96 | |
| DRO >C10-C28 | 101 | 10.0 | 07/19/2013 | ND | 180 | 90.1 | 200 | 8.88 | |

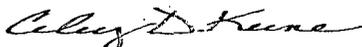
Surrogate: 1-Chlorooctane 82.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/17/2013
 Reported: 07/24/2013
 Project Name: ASAU INJECTION LINE
 Project Number: 701307.049.01
 Project Location: NOT GIVEN

 Sampling Date: 07/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S/2 - O" (H301674-03)

| BTEX 8021B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/19/2013 | ND | 1.92 | 96.0 | 2.00 | 5.68 | |
| Toluene* | <0.050 | 0.050 | 07/19/2013 | ND | 1.91 | 95.7 | 2.00 | 5.61 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/19/2013 | ND | 2.03 | 102 | 2.00 | 5.15 | |
| Total Xylenes* | <0.150 | 0.150 | 07/19/2013 | ND | 6.17 | 103 | 6.00 | 5.53 | |
| Total BTEX | <0.300 | 0.300 | 07/19/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 12800 | 16.0 | 07/22/2013 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/19/2013 | ND | 175 | 87.6 | 200 | 5.96 | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/19/2013 | ND | 180 | 90.1 | 200 | 8.88 | |

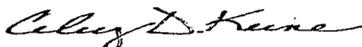
Surrogate: 1-Chlorooctane 82.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.3 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 07/17/2013 | Sampling Date: | 07/17/2013 |
| Reported: | 07/24/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S/2 - 6" (H301674-04)

| BTEX 8021B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/24/2013 | ND | 1.92 | 96.0 | 2.00 | 5.68 | |
| Toluene* | <0.050 | 0.050 | 07/24/2013 | ND | 1.91 | 95.7 | 2.00 | 5.61 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/24/2013 | ND | 2.03 | 102 | 2.00 | 5.15 | |
| Total Xylenes* | <0.150 | 0.150 | 07/24/2013 | ND | 6.17 | 103 | 6.00 | 5.53 | |
| Total BTEX | <0.300 | 0.300 | 07/24/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8800 | 16.0 | 07/22/2013 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/19/2013 | ND | 175 | 87.6 | 200 | 5.96 | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/19/2013 | ND | 180 | 90.1 | 200 | 8.88 | |

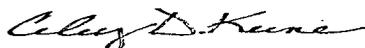
Surrogate: 1-Chlorooctane 79.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 07/17/2013 | Sampling Date: | 07/17/2013 |
| Reported: | 07/24/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S/3 - 0" (H301674-05)

| BTEX 8021B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.02 | 101 | 2.00 | 10.3 | |
| Toluene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.03 | 102 | 2.00 | 10.8 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.16 | 108 | 2.00 | 10.9 | |
| Total Xylenes* | <0.150 | 0.150 | 07/22/2013 | ND | 6.53 | 109 | 6.00 | 11.6 | |
| Total BTEX | <0.300 | 0.300 | 07/22/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 07/22/2013 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/19/2013 | ND | 175 | 87.6 | 200 | 5.96 | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/19/2013 | ND | 180 | 90.1 | 200 | 8.88 | |

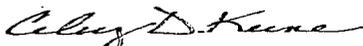
Surrogate: 1-Chlorooctane 74.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.5 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 07/17/2013 | Sampling Date: | 07/17/2013 |
| Reported: | 07/24/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S/3 - 6" (H301674-06)

| BTEX 8021B | | mg/kg | | Analyzed By: DW | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.02 | 101 | 2.00 | 10.3 | | |
| Toluene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.03 | 102 | 2.00 | 10.8 | | |
| Ethylbenzene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.16 | 108 | 2.00 | 10.9 | | |
| Total Xylenes* | <0.150 | 0.150 | 07/22/2013 | ND | 6.53 | 109 | 6.00 | 11.6 | | |
| Total BTEX | <0.300 | 0.300 | 07/22/2013 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 80.0 | 16.0 | 07/22/2013 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 07/19/2013 | ND | 175 | 87.6 | 200 | 5.96 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/19/2013 | ND | 180 | 90.1 | 200 | 8.88 | | |

Surrogate: 1-Chlorooctane 79.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 07/17/2013 | Sampling Date: | 07/17/2013 |
| Reported: | 07/24/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S/4 - 0" (H301674-07)

| BTEX 8021B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.02 | 101 | 2.00 | 10.3 | |
| Toluene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.03 | 102 | 2.00 | 10.8 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.16 | 108 | 2.00 | 10.9 | |
| Total Xylenes* | <0.150 | 0.150 | 07/22/2013 | ND | 6.53 | 109 | 6.00 | 11.6 | |
| Total BTEX | <0.300 | 0.300 | 07/22/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 07/22/2013 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/22/2013 | ND | 184 | 91.8 | 200 | 1.99 | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/22/2013 | ND | 193 | 96.6 | 200 | 3.15 | |

Surrogate: 1-Chlorooctane 91.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 07/17/2013 | Sampling Date: | 07/17/2013 |
| Reported: | 07/24/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S/4 - 6" (H301674-08)

| BTEX 8021B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.02 | 101 | 2.00 | 10.3 | |
| Toluene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.03 | 102 | 2.00 | 10.8 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/22/2013 | ND | 2.16 | 108 | 2.00 | 10.9 | |
| Total Xylenes* | <0.150 | 0.150 | 07/22/2013 | ND | 6.53 | 109 | 6.00 | 11.6 | |
| Total BTEX | <0.300 | 0.300 | 07/22/2013 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: DW | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 07/22/2013 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 07/22/2013 | ND | 184 | 91.8 | 200 | 1.99 | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/22/2013 | ND | 193 | 96.6 | 200 | 3.15 | |

Surrogate: 1-Chlorooctane 79.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | | | | | | | | | | | |
|---|-----------------|------------------------------|------------|-------------------------|----------|--------|---------------------|----------|----------|--|--|
| Company Name: Talon/LPE | | BILL TO | | ANALYSIS REQUEST | | | | | | | |
| Project Manager: O Adkins | | P.O. #: | | | | | | | | | |
| Address: 408 W. TEXAS AVE. | | Company: Talon/LPE | | | | | | | | | |
| City: Artesia State: NM Zip: 88210 | | Attn: | | | | | | | | | |
| Phone #: 575-746-8768 Fax #: 575-746-8905 | | Address: | | | | | | | | | |
| Project #: 701302.049.01 Project Owner: Line Rock | | City: | | | | | | | | | |
| Project Name: ASAU Injection Line | | State: Zip: | | | | | | | | | |
| Project Location: | | Phone #: | | | | | | | | | |
| Sampler Name: Sheldon Hitchcock | | Fax #: | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (GRAB OR (COMP. # CONTAINERS | MATRIX | | | | | PRESERV. | SAMPLING | | |
| | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | | | | |
| | | | | ACID/BASE: | ICE/COOL | OTHER: | | | | | |
| | | | | | | | DATE | | | | |
| | | | | | | | TIME | | | | |
| A3011674 | | | | | | | | | | | |
| | 1 S/1-0" | G | 1 | | | | 7/17/13 9:49 | | | | |
| | 2 S/1-6" | G | 1 | | | | 11 9:53 | | | | |
| | 3 S/2-0" | G | 1 | | | | 11 10:66 | | | | |
| | 4 S/2-6" | G | 1 | | | | 11 10:10 | | | | |
| | 5 S/3-0" | G | 1 | | | | 11 10:27 | | | | |
| | 6 S/3-6" | G | 1 | | | | 11 10:30 | | | | |
| | 7 S/4-0" | G | 1 | | | | 11 10:40 | | | | |
| | 8 S/4-6" | G | 1 | | | | 11 10:42 | | | | |

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| | | | | |
|---|----------------------|---|--|----------------|
| Relinquished By: <i>Sheldon Hitchcock</i> | Date: 7/17/13 | Received By: <i>Jan Ruto</i> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
| | Time: 1:57 | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: <i>Jan Ruto</i> | Date: 7/17/13 | Received By: <i>Jodi Benson</i> | REMARKS: | |
| | Time: 3:20 | | | |
| Delivered By: (Circle One) | Sample Condition: | CHECKED BY: <i>JH</i> | | |
| Sampler - UPS - Bus - Other: | Cool Intact | | | |
| | 1.6°C | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |

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

#54



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

August 08, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM-88210

RE: ASAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/02/13 8:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 08/02/2013 | Sampling Date: | 07/30/2013 |
| Reported: | 08/08/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Daniel Wade |
| Project Location: | NOT GIVEN | | |

Sample ID: S-1 1' (H301819-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 8800 | 16.0 | 08/05/2013 | ND | 432 | 108 | 400 | 3.64 | | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 341 | 10.0 | 08/06/2013 | ND | 188 | 93.9 | 200 | 3.98 | | |
| DRO >C10-C28 | 607 | 10.0 | 08/06/2013 | ND | 209 | 104 | 200 | 5.31 | | |

Surrogate: 1-Chlorooctane 108 % 65.2-140
 Surrogate: 1-Chlorooctadecane 121 % 63.6-154

Sample ID: S-1 2' (H301819-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 3560 | 16.0 | 08/05/2013 | ND | 432 | 108 | 400 | 3.64 | | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 1720 | 50.0 | 08/06/2013 | ND | 188 | 93.9 | 200 | 3.98 | | |
| DRO >C10-C28 | 2150 | 50.0 | 08/06/2013 | ND | 209 | 104 | 200 | 5.31 | | |

Surrogate: 1-Chlorooctane 152 % 65.2-140
 Surrogate: 1-Chlorooctadecane 143 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 08/02/2013 | Sampling Date: | 07/30/2013 |
| Reported: | 08/08/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Daniel Wade |
| Project Location: | NOT GIVEN | | |

Sample ID: S-1 3' (H301819-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 10300 | 16.0 | 08/05/2013 | ND | 432 | 108 | 400 | 3.64 | | |
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 69.9 | 10.0 | 08/06/2013 | ND | 188 | 93.9 | 200 | 3.98 | | |
| DRO >C10-C28 | 116 | 10.0 | 08/06/2013 | ND | 209 | 104 | 200 | 5.31 | | |

Surrogate: 1-Chlorooctane 91.3 % 65.2-140
 Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Sample ID: S-2 1' (H301819-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1920 | 16.0 | 08/05/2013 | ND | 432 | 108 | 400 | 3.64 | | |

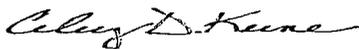
Sample ID: S-2 2' (H301819-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 288 | 16.0 | 08/05/2013 | ND | 432 | 108 | 400 | 3.64 | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 08/02/2013 | Sampling Date: | 07/30/2013 |
| Reported: | 08/08/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | Cool & Intact |
| Project Number: | 701307.049.01 | Sample Received By: | Daniel Wade |
| Project Location: | NOT GIVEN | | |

Sample ID: S-2 3' (H301819-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 08/05/2013 | ND | 432 | 108 | 400 | 3.64 | |

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Celey D. Keene, Lab Director/Quality Manager

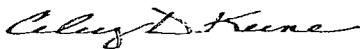
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---------------------------|--------------|-------------------------|-----|--------|--------|------------|----------|----------|---------|-------|-----|------|-----------|--|--|--|--|--|--|--|--|--|--|
| Company Name: Talon/LPE | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: ASAU | | P.O. #: | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 408 W. Texas Ave. | | Company: Talon/LPE | | | | | | | | | | | | | | | | | | | | | | | |
| City: Artesia State: NM Zip: 88210 | | Attn: | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: 575-746-8768 Fax #: 575-746-9905 | | Address: | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: 701307.049.01 Project Owner: Lime Rock | | City: | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: ASAU injection Line | | State: Zip: | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: Sheldon Hitchcock | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (COMP.) | # CONTAINERS | MATRIX | | | | | PRESERV. | SAMPLING | | | | | | | | | | | | | | | |
| | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE/COOL | OTHER: | DATE | TIME | TPH | BTEX | Chlorides | | | | | | | | | | |
| H301819 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5-1 1' | 5 | 1 | / | | | | / | | | 7-30-13 | 10:54 | / | / | / | | | | | | | | | | |
| 2 | 5-1 2' | 5 | 1 | / | | | | / | | | | 10:54 | / | / | / | | | | | | | | | | |
| 3 | 5-1 3' | 5 | 1 | / | | | | / | | | | 11:05 | / | / | / | | | | | | | | | | |
| 4 | 5-2 1' | 5 | 1 | / | | | | / | | | | 11:09 | / | / | / | | | | | | | | | | |
| 5 | 5-2 2' | 5 | 1 | / | | | | / | | | | 11:13 | / | / | / | | | | | | | | | | |
| 6 | 5-2 3' | 5 | 1 | / | | | | / | | | | 11:21 | / | / | / | | | | | | | | | | |

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| | | | | |
|------------------------------|--|-------------------------|--|----------------|
| Relinquished By: | Date: 8/2/13 | Received By: | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
| <i>Sheldon Hitchcock</i> | Time: 9/2/13 | <i>Paul [Signature]</i> | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: | Date: | Received By: | REMARKS: | |
| | Time: | | | |
| Delivered By: (Circle One) | Sample Condition | CHECKED BY: | | |
| Sampler - UPS - Bus - Other: | Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <i>JA</i> | | |

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

ASAU

August 20, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ASAU INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/19/13 15:12.

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

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

| | | | |
|-------------------|---------------------|---------------------|----------------|
| Received: | 08/19/2013 | Sampling Date: | 08/19/2013 |
| Reported: | 08/20/2013 | Sampling Type: | Soil |
| Project Name: | ASAU INJECTION LINE | Sampling Condition: | ** (See Notes) |
| Project Number: | 701307.049.01 | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: S-1 9' (H301975-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 640 | 16.0 | 08/20/2013 | ND | 416 | 104 | 400 | 0.00 | | |

Sample ID: S-1 10' (H301975-02)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 208 | 16.0 | 08/20/2013 | ND | 416 | 104 | 400 | 0.00 | | |

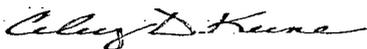
Sample ID: S-1 12' (H301975-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 08/20/2013 | ND | 416 | 104 | 400 | 3.77 | | |

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Celey D. Keene, Lab Director/Quality Manager

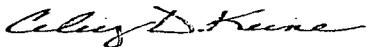
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|---------------------------|-------------------|---|------------|----------|-----|--------|---------|------------|------------|---------|----------------|-----------------|--|--------|--|--|--|----------|--|--|----------|--|--|--|--|
| Company Name: <u>Talon/LPE</u> | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>D. Adkins</u> | | P.O. #: | | <div style="display: flex; justify-content: space-between;"> Cardinal / </div> | | | | | | | | | | | | | | | | | | | | | | | |
| Address: <u>408 W Texas</u> | | Company: <u>Talon/LPE</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88400</u> | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: <u>575-246-8786</u> Fax #: <u>575-746-8705</u> | | Address: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: <u>701307.049.01</u> Project Owner: <u>Limrock</u> | | City: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>ASA injection lines</u> | | State: Zip: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: <u>S. Hitchcock</u> | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | # CONTAINERS | (C)RAB OR (C)OMP. | | | | | | | | | | | | | MATRIX | | | | PRESERV. | | | SAMPLING | | | | |
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE | TIME | | | | | | | | | | | | | |
| <u>H30A75</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>1</u> | <u>S-2 / 9'</u> | <u>1</u> | <u>1</u> | | | <u>1</u> | | | | | | | <u>9/17/13</u> | <u>12:32</u> | | | | | | | | | | | | | |
| <u>2</u> | <u>S-1 / 10'</u> | <u>1</u> | <u>1</u> | | | <u>1</u> | | | | | | | <u>S</u> | <u>12:54 pm</u> | | | | | | | | | | | | | |
| <u>3</u> | <u>S-2 / 12'</u> | <u>1</u> | <u>1</u> | | | <u>1</u> | | | | | | | <u>S</u> | <u>1:15 pm</u> | | | | | | | | | | | | | |

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| | | | | |
|---|--|--|--|----------------|
| Relinquished By: | Date: <u>9-19-2013</u> | Received By: <u>Jodi Benson</u> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
| | Time: <u>3:12</u> | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: | Date: | Received By: | REMARKS: <u>RUSH!!</u> | |
| | Time: | | | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>240</u> | Sample Condition: Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No | CHECKED BY: (Initials) <u>JA</u> | | |

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#54