



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

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October 28, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: A-4 / NERBERG SWD POLYLINE

Enclosed are the results of analyses for samples received by the laboratory on 09/19/14 11:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

|                   |                            |                     |               |
|-------------------|----------------------------|---------------------|---------------|
| Received:         | 09/19/2014                 | Sampling Date:      | 09/17/2014    |
| Reported:         | 10/28/2014                 | Sampling Type:      | Soil          |
| Project Name:     | A-4 / NERBERG SWD POLYLINE | Sampling Condition: | Cool & Intact |
| Project Number:   | 70070209201                | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN                  |                     |               |

**Sample ID: S-1 OVERSPRAY (H402905-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 09/22/2014 | ND              | 1.81 | 90.3       | 2.00          | 0.512 |           |
| Toluene*       | <0.050 | 0.050           | 09/22/2014 | ND              | 1.68 | 83.8       | 2.00          | 1.20  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 09/22/2014 | ND              | 1.56 | 78.1       | 2.00          | 2.19  |           |
| Total Xylenes* | <0.150 | 0.150           | 09/22/2014 | ND              | 4.64 | 77.3       | 6.00          | 2.29  |           |
| Total BTX      | <0.300 | 0.300           | 09/22/2014 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 09/22/2014 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: ms |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 09/22/2014 | ND              | 183 | 91.5       | 200           | 1.25 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 09/22/2014 | ND              | 190 | 94.9       | 200           | 4.20 |           |

Surrogate: 1-Chlorooctane 88.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.5 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

|                   |                            |                     |               |
|-------------------|----------------------------|---------------------|---------------|
| Received:         | 09/19/2014                 | Sampling Date:      | 09/17/2014    |
| Reported:         | 10/28/2014                 | Sampling Type:      | Soil          |
| Project Name:     | A-4 / NERBERG SWD POLYLINE | Sampling Condition: | Cool & Intact |
| Project Number:   | 70070209201                | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN                  |                     |               |

**Sample ID: S-2 OVERSPRAY (H402905-02)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 09/22/2014 | ND              | 1.81 | 90.3       | 2.00          | 0.512 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/22/2014 | ND              | 1.68 | 83.8       | 2.00          | 1.20  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/22/2014 | ND              | 1.56 | 78.1       | 2.00          | 2.19  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/22/2014 | ND              | 4.64 | 77.3       | 6.00          | 2.29  |           |  |
| Total BTX      | <0.300 | 0.300           | 09/22/2014 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 89.4-126

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 09/22/2014 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: ms |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 09/22/2014 | ND              | 183 | 91.5       | 200           | 1.25 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 09/22/2014 | ND              | 190 | 94.9       | 200           | 4.20 |           |

Surrogate: 1-Chlorooctane 79.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 75.5 % 63.6-154

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\*=Accredited Analyte

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|-------------------|----------------------------|---------------------|---------------|
| Received:         | 09/19/2014                 | Sampling Date:      | 09/17/2014    |
| Reported:         | 10/28/2014                 | Sampling Type:      | Soil          |
| Project Name:     | A-4 / NERBERG SWD POLYLINE | Sampling Condition: | Cool & Intact |
| Project Number:   | 70070209201                | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN                  |                     |               |

**Sample ID: S-3 OVERSPRAY (H402905-03)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: ms |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 09/22/2014 | ND              | 1.81 | 90.3       | 2.00          | 0.512 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/22/2014 | ND              | 1.68 | 83.8       | 2.00          | 1.20  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/22/2014 | ND              | 1.56 | 78.1       | 2.00          | 2.19  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/22/2014 | ND              | 4.64 | 77.3       | 6.00          | 2.29  |           |  |
| Total BTX      | <0.300 | 0.300           | 09/22/2014 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 89.4-126

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 09/22/2014 | ND              | 416 | 104        | 400           | 3.92 |           |  |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: ms |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 09/22/2014 | ND              | 183 | 91.5       | 200           | 1.25 |           |
| DRO >C10-C28 | 71.6   | 10.0            | 09/22/2014 | ND              | 190 | 94.9       | 200           | 4.20 |           |

Surrogate: 1-Chlorooctane 91.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.3 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

|     |  |
|-----|--|
| ND  | Analyte NOT DETECTED at or above the reporting limit   |
| RPD | Relative Percent Difference  |
| **  | Samples not received at proper temperature of 6°C or below.  |
| *** | Insufficient time to reach temperature.  |
| -   | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>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



# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|                                       |             |                    |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------|-------------|--------------------|--------------|--------------------------|------------|------------------|-----|------------------|--------|-------------------------|------------|---|---------|--|-----------------|--|------|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: Talon/LPE               |             | P.O. #:            |              | BILL TO                  |            | ANALYSIS REQUEST |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Manager: S Hitchcock          |             | Company: Talon/LPE |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Address: 408 W. Texas Ave.            |             | Attn:              |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: Artesia                         |             | Address:           |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phone #: 575-746-8768                 |             | City:              |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fax #: 575-746-8905                   |             | State:             |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project #: 1007020901                 |             | Zip:               |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Owner: DCP                    |             |                    |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Name: H-4/Neberg SW Poly Line |             |                    |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Location:                     |             |                    |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sampler Name: S Hitchcock             |             |                    |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY                      |             |                    |              |                          |            |                  |     |                  |        |                         |            |   |         |  |                 |  |      |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab I.D.                              | Sample I.D. | (G)RAB OR (C)OMP.  | # CONTAINERS | GROUNDWATER              | WASTEWATER | SOIL             | OIL | SLUDGE           | OTHER: | ACID/BASE:              | ICE / COOL | OTHER:  | DATE    | TIME   | Total Chlorides | TPH  | BTEX |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H407405                               | S-1         | Over spray         | ✓            | ✓                        | ✓          | ✓                | ✓   | ✓                | ✓      | ✓                       | ✓          | ✓   | 9/17/14 | 10:44  | ✓               | ✓  | ✓    |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                       | S-2         | Over spray         | ✓            | ✓                        | ✓          | ✓                | ✓   | ✓                | ✓      | ✓                       | ✓          | ✓   | 9/17/14 | 16:46  | ✓               | ✓  | ✓    |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                       | S-3         | Over spray         | ✓            | ✓                        | ✓          | ✓                | ✓   | ✓                | ✓      | ✓                       | ✓          | ✓   | 9/17/14 | 16:49  | ✓               | ✓  | ✓    |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By: Sheldan Hirschman    |             | Date:              |              | Received By: [Signature] |            | Time:            |     | Sample Condition |        | CHECKED BY: [Signature] |            | REMARKS: PUSH!!   |         | Phone Result: Yes <input type="checkbox"/> No <input type="checkbox"/> |                 | Fax Result: Yes <input type="checkbox"/> No <input type="checkbox"/> |      | Add'l Phone #: Add'l Fax #: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delivered By: (Circle One)            |             | Time:              |              | Time:                    |            | Time:            |     | Sample Condition |        | CHECKED BY: [Signature] |            | REMARKS: *Sample ids revised as per Sheldan 10/28/14 CK |         | Phone Result: Yes <input type="checkbox"/> No <input type="checkbox"/> |                 | Fax Result: Yes <input type="checkbox"/> No <input type="checkbox"/> |      | Add'l Phone #: Add'l Fax #: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sampler - UPS - Bus - Other:          |             | Time:              |              | Time:                    |            | Time:            |     | Sample Condition |        | CHECKED BY: [Signature] |            | REMARKS: *Sample ids revised as per Sheldan 10/28/14 CK |         | Phone Result: Yes <input type="checkbox"/> No <input type="checkbox"/> |                 | Fax Result: Yes <input type="checkbox"/> No <input type="checkbox"/> |      | Add'l Phone #: Add'l Fax #: |  |  |  |  |  |  |  |  |  |  |  |  |  |

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